LIMITED ENERGY STUDY EEAP - DACA01-94-D-0037

FOR
Fort Monmouth



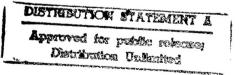
US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, NORFOLK
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

INFINAL REPORT

Book 2 of 2

Prepared by





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March 1997

DEPARTMENT OF THE ARMY

CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS
P.O. BOX 9005
CHAMPAIGN, ILLINOIS 61826-9005

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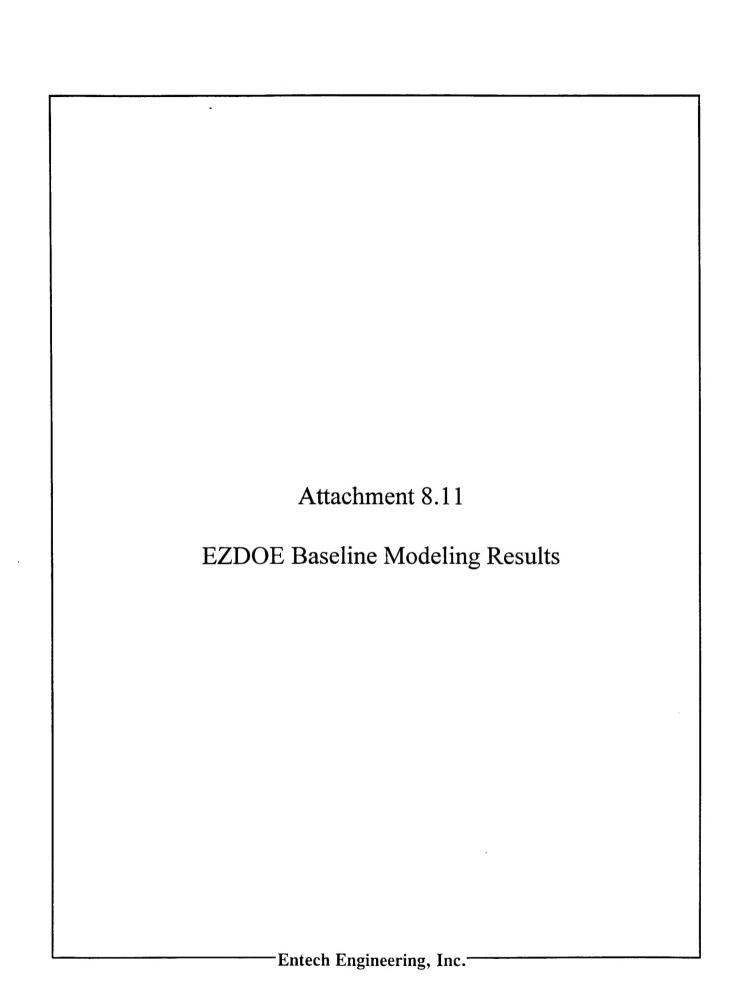
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Marie Wakef**/**eld,

Librarian Engineering



```
$ E Z - D O E
                               LOADS INPUT$
                    $ GENERAL PROJECT DATA
TITLE
      LINE-1 *
                        ENTECH ENGINEERING
       LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
                    READING,
                                            19603
       LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ
       LINE-5 *FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
ABORT
                   ERRORS
DIAGNOSTIC
                   WARNINGS ..
LOADS-REPORT
                   SUMMARY=(LS-F)
BUILDING-LOCATION
                   ALTITUDE = 15.
                   X-REF = 0.0
                   Y-REF = 0.0
RUN-PERIOD
                   JAN 1 1994 THRU DEC 31 1994
                    $ SCHEDULES
D24FULOFF =DAY-SCHEDULE
                         (1,24) (0.) ...
DOCCUP01
           =DAY-SCHEDULE
                          (1,6) (0.07)
                           (7,8) (0.7,0.9)
                          (9,14) (1.)
                           (15,18) (0.9,0.7,0.25,0.15)
                          (19,24) (0.07) ...
d24occofhr =DAY-SCHEDULE
                          (1,24) (0.07) ...
DWKLITE1
           =DAY-SCHEDULE
                          (1,6) (0.1)
                           (7,8) (0.5,0.9)
                          (9,14) (1.)
                          (15,18) (0.9,0.7,0.25,0.15)
                           (19,24) (0.1) ...
DNOTLITE1 =DAY-SCHEDULE
                          (1,24) (0.1) ...
DINFILWIN1 = DAY-SCHEDULE
                          (1,24) (0.8) ...
DINFILSUM1 =DAY-SCHEDULE
                          (1,24) (0.8) ...
DFULON24
           =DAY-SCHEDULE
                          (1,24) (1.) ...
DEQPWKDAY
          =DAY-SCHEDULE
                          (1,7) (0.15)
                          (8,19) (0.5)
```

(20,24) (0.15) ...

(1,24) (0.15)

19971023 105

DEQAWKEND = DAY-SCHEDULE

	•						
WOCC01	=WEEK-SCHI	EDULE		O) EH)			
WLITE1	=WEEK-SCHI	EDULE	•	O) EH)			
WINFILWIN1	=WEEK-SCHI	EDULE	(AI	LL)	DINFIL	VIN1	
WINFILSUM1	=WEEK-SCHI	EDULE	(AI	LL)	DINFILS	SUM1	
WHR16MAY	=WEEK-SCHI	EDULE	(TU (WI (TI (FI (SI (SU	ED) HU) RI) AT)	D24FULO D24FULO D24FULO D24FULO D24FULO	OFF OFF OFF OFF OFF	
WLFULOF	=WEEK-SCHI	EDULE	(AI	LL)	D24FULC	FF	
WEQSCHA	=WEEK-SCHI	EDULE		O) EH)	DEQPWKI DEQAWKE		
\$ 24 HR FUI Y24FULON7D			DEC	31	W24FULC)N7D	•
\$ Y LOADS O	CCUP SCH (=SCHEDULE		DEC	31	WOCC01		
\$ YR LIGHT: YLITE1	NG SCH 1/ =SCHEDULE		DEC	31	WLITE1		
\$ YR INFIL YINFIL1		THRU	OCT	15	WINFILM WINFILM WINFILM	SUM1	
\$ HRLY RPT HRMAY16		THRU	MAY	16	WLFULOR WHR16MA WLFULOR	ΑY	
\$ YR EQUIPN YEQSCHA	MENT SCHDA =SCHEDULE	5015 THRU	DEC	31	WEQSCHA	٠. ١	
	Ş	CONS	STRUC	CTIC	ON TYPES	3	

\$ ROOF CON1 MAIN ROOF ROOFCON1 = CONSTRUCTION U-VALUE = 0.100 ...

\$ EXTERIOR WAL1 TYP

EXWAL1 = CONSTRUCTION U-VALUE = 0.080 ...

\$ INTERIOR WALL 1 TYP
INTWAL1 = CONSTRUCTION

U-VALUE = 0.480 ABSORPTANCE = 0.000 ...

\$ EXTERIOR DOOR TYP 01 U=.4

EXTDR01 = CONSTRUCTION U-VALUE = 0.400

\$ UNDER GRND WALL 1

UWAL1 = CONSTRUCTION U-VALUE = 0.100 ...

GLTYP1 =GLASS-TYPE SH

SHADING-COEF = 0.560

PANES = 1

GLASS-CONDUCTANCE = 0.520 ...

S SPACE DESCRIPTION

1EXTPER =SPACE

AREA = 38634.0 VOLUME = 647120.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3

INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 51.0 CONS = EXWAL1 AZIMUTH = 270 ...

WINDOW HEIGHT = 2.7 WIDTH = 41.3 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 96.0 CONS = EXWAL1 AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 183.0 CONS = EXWAL1 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 148.2 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 384.5 CONS = EXWAL1 AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 311.5 G-T = GLTYP1 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01 MULTIPLIER = 2.0 ..

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 50.0 CONS = EXWAL1 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 40.5 G-T = GLTYP1 ...

AREA = 7696.0 VOLUME = 128908.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3

INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 156.0 CONS = EXWAL1 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 126.4 G-T = GLTYP1 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = ROOFCON1 ..

2EXTPER =SPACE AREA = 25789.0 VOLUME = 251443.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3

INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0

INF-SCHEDULE = YINFIL1 ...

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 270

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1 AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1 AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1 AZIMUTH = 315 ...

WINDOW HEIGHT = 2.7 WIDTH = 309.0 G-T = GLTYP1 ...

E-WHEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 225 . . WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 .. =SPACE AREA = 20421.0 VOLUME = 199105.0 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCCO1 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SOFT = 3.1 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 270WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ... E - WHEIGHT = 15.3 WIDTH = 39.0 CONS = EXWALL AZIMUTH = 0WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 .. HEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1 E-WAZIMUTH = 315WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ... E-W HEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1 AZIMUTH = 270WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ... E - WHEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1 AZIMUTH = 225WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ... E-W HEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1 AZIMUTH = 135 WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 ... E-WHEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 225WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ... AREA = 40144.0 VOLUME = 391404.0 =SPACE TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

INF-METHOD = NONE

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.8

2INTPER

2MIDL

```
E-W
            HEIGHT = 15.3 WIDTH = 14.0 CONS = EXWALL
            AZIMUTH = 270
    WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1
            AZIMUTH = 315
     WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1
            AZIMUTH = 225
     WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ...
=SPACE
          AREA = 25789.0 VOLUME = 251443.0
          TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
          PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
          PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
          LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
          LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
          EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
          INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
          INF-SCHEDULE = YINFIL1
   E-W
            HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
            AZIMUTH = 270
                          . .
    WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1
            AZIMUTH = 180
     WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1
            AZIMUTH = 135
     WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1
            AZIMUTH = 90
                          . .
     WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1
            AZIMUTH = 45
     WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1
            AZIMUTH = 315
    WINDOW HEIGHT = 2.7 WIDTH = 309.4 G-T = GLTYP1 ...
```

HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1

3EXTPER

E - W

AZIMUTH = 225

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ...

3MIDL =SPACE AREA = 49416.0 VOLUME = 481806.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.8
INF-METHOD = NONE

E-W HEIGHT = 15.3 WIDTH = 14.0 CONS = EXWAL1 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1 AZIMUTH = 315 ...

WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ...

3INTPER =SPACE AREA = 20421.0 VOLUME = 199105.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3

INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0

INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 270 ...

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 39.0 CONS = EXWAL1 AZIMUTH = 0 ..

WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ...

E-W HEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1 AZIMUTH = 225 ..

```
WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ...
   E - W
           HEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1
           AZIMUTH = 135
    WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 ...
   E - W
           HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
            AZIMUTH = 225
     WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ...
=SPACE
         AREA = 25789.0 VOLUME = 251443.0
          TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
          PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
          PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
          LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
          LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
          EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
          INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
          INF-SCHEDULE = YINFIL1
   E-W
            HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
            AZIMUTH = 270
     WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1
            AZIMUTH = 180
     WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1
            AZIMUTH = 135
     WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..
   E - W
            HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1
            AZIMUTH = 90
     WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..
   E-W
            HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1
            AZIMUTH = 45
     WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1
            AZIMUTH = 315
                           . .
     WINDOW HEIGHT = 2.7 WIDTH = 309.4 G-T = GLTYP1 ...
   E-W
            HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
            AZIMUTH = 225
     WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..
```

HEIGHT = 257.9 WIDTH = 100.0 CONS = ROOFCON1

4EXTPER

ROOF

AREA = 36103.0 VOLUME = 352004.0 4MIDL =SPACE TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SOFT = 1.8 EQUIPMENT-KW = 1.0 INF-METHOD = NONE E - WHEIGHT = 15.3 WIDTH = 14.0 CONS = EXWAL1 AZIMUTH = 270WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ... E-WHEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1 AZIMUTH = 315 WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ... E-WHEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1 AZIMUTH = 225 WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ... ROOF HEIGHT = 361.0 WIDTH = 100.0 CONS = ROOFCON1 TILT = 04 INTPER =SPACE AREA = 20421.0 VOLUME = 199105.0 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 E-WHEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 270WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 .. E-WHEIGHT = 15.3 WIDTH = 39.0 CONS = EXWAL1 AZIMUTH = 0WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 .. E-WHEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1 AZIMUTH = 315WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ... E-WHEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1 AZIMUTH = 270

WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ...

AZIMUTH = 225WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ... E-WHEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1 AZIMUTH = 135WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 .. E-WHEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1 AZIMUTH = 225WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ... ROOF HEIGHT = 204.2 WIDTH = 100.0 CONS = ROOFCON1 TILT = 0AREA = 18905.0 VOLUME = 151240.0 OINTEXTPER =SPACE TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = Y24FULON7D EQUIPMENT-W/SOFT = 1.3 INF-METHOD = NONEE-W HEIGHT = 14.0 WIDTH = 110.0 CONS = EXWAL1 AZIMUTH = 180 WINDOW HEIGHT = 2.7 WIDTH = 89.1 G-T = GLTYP1 .. E - WHEIGHT = 14.0 WIDTH = 60.5 CONS = EXWAL1 AZIMUTH = 225WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ... U-W HEIGHT = 14.0 WIDTH = 75.0 CONS = UWAL1 ... U-W HEIGHT = 95.0 WIDTH = 39.0 CONS = UWAL1 .. E-WHEIGHT = 14.0 WIDTH = 80.0 CONS = EXWAL1 AZIMUTH = 135WINDOW HEIGHT = 2.7 WIDTH = 64.8 G-T = GLTYP1 .. E-WHEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1 AZIMUTH = 270 ... WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 .. ROOF HEIGHT = 484.7 WIDTH = 39.0 CONS = ROOFCON1 TILT = 0

HEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1

E-W

```
SYSTEMS INPUT$
                  EZ-DOE
                    $ GENERAL PROJECT DATA
TITLE LINE-1 *
                        ENTECH
                                 ENGINEERING
       LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
                    READING,
                                            19603
       LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ
       LINE-5 *FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
ABORT
                   ERRORS
DIAGNOSTIC
                   WARNINGS ..
                   SUMMARY=(SS-A,SS-D)
SYSTEMS-REPORT
                   REPORT-FREQUENCY = MONTHLY
                    $ SCHEDULES
D24FULON
           =DAY-SCHEDULE
                           (1,24) (1.) ...
D24FULOF
           =DAY-SCHEDULE
                           (1,24)
                                  (0.) ..
DHTSET1
           =DAY-SCHEDULE
                          (1,24) (72.) ...
DCLSET1
           =DAY-SCHEDULE
                          (1,24) (75.) ...
DLOTMPNOHT =DAY-SCHEDULE
                         (1,24) (0.) ...
DHITMPNOCL =DAY-SCHEDULE
                         (1,24) (90.) ..
SCH 1
         =DAY-SCHEDULE
                          (1,24) (1.) ...
SCH 2
                           (1,24) (0.) ...
           =DAY-SCHEDULE
OF PKD
           =DAY-SCHEDULE
                           (1,7) (1.)
                           (8,19) (0.)
                           (20,24) (1.) ...
ON PKD
           =DAY-SCHEDULE
                           (1,7) (0.)
                           (8,19) (1.)
                           (20,24) (0.) ..
SET BACKD1 = DAY-SCHEDULE
                           (1,5) (80.)
                           (6,19) (75.)
                           (20,24) (80.) ..
                           (1,24) (80.) ..
SET BACKD2 = DAY-SCHEDULE
SET BACKD3 =DAY-SCHEDULE
                           (1,5) (67.)
                           (6,19) (72.)
                           (20,24) (67.) ...
SET BACKD4 = DAY-SCHEDULE
                           (1,24) (67.) ...
FAN WKD
           =DAY-SCHEDULE
                           (1,5) (0.)
                           (6,19) (1.)
                           (20,24) (0.) ...
FAN WKEND
           =DAY-SCHEDULE
                           (1,24) (0.) ...
W24FULON
           =WEEK-SCHEDULE
                            (ALL) D24FULON
WFULOF247D =WEEK-SCHEDULE
                            (ALL) D24FULOF
WHTSET1
           =WEEK-SCHEDULE
                            (ALL) DHTSET1
WCLSET1
           =WEEK-SCHEDULE
                            (ALL) DCLSET1
WLOTMPNOHT = WEEK-SCHEDULE
                            (ALL) DLOTMPNOHT
WHITMPNOCL = WEEK-SCHEDULE
                            (ALL) DHITMPNOCL
```

SCH_1W	=WEEK-SCHE	DULE	(AI	L)	SCH_1 .	•	
SCH_2W	=WEEK-SCHE	DULE	(AI	L)	SCH_2 .		
OFF_PKW	=WEEK-SCHE	DULE	(WE)) EH)	OF_PKD D24FULON	ı	
ON_PKW	=WEEK-SCHE	DULE	(WE	O) EH)	ON_PKD D24FULOF	·	
SET_BACKW1	=WEEK-SCHE	DULE	(WE)) EH)	SET_BACK	D1 D2	
SET_BACKW2	=WEEK-SCHE	DULE	(WE)) EH)	SET_BACK	D3 D4	
FAN_WEEK	=WEEK-SCHE	DULE	(WE)) EH)	FAN_WKD FAN_WKEN	ID .	
	FULON 24HRS =SCHEDULE		DEC	31	W24FULON	ı	
		THRU THRU	OCT	15	W24FULON WFULOF24 W24FULON	7D	
	OOL SEASON =SCHEDULE	THRU THRU	OCT	15	WFULOF24 W24FULON WFULOF24	J	
		THRU THRU	MAY OCT	15	WHTSET1 WHTSET1 WHTSET1		
		THRU THRU	MAY OCT	15	WCLSET1 WCLSET1 WCLSET1		
SCH_1Y		THRU	AUG	19	SCH_2W SCH_1W SCH_2W		
OFF_PKY	=SCHEDULE	THRU	DEC	31	OFF_PKW		
ON_PKY	=SCHEDULE	THRU	DEC	31	ON_PKW		
SET_BACKY1	=SCHEDULE	THRU	DEC	31	SET_BACK	tw1	
SET_BACKY2	=SCHEDULE	THRU	DEC	31	SET_BACK	W2	
FAN_YEAR	=SCHEDULE	THRU	DEC	31	FAN_WEEK		

\$ ZONE DESCRIPTION

	1EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS
	1INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS
	2EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS
)	2INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS
	2MIDL	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -800000.0 COOLING-CAPACITY = 16800000.0
	3EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS
)	3MIDL	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -800000.0 COOLING-CAPACITY = 16800000.0
	3 INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC

SIZING-OPTION = FROM-LOADS

4EXTPER =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS .

4MIDL = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -800000.0 COOLING-CAPACITY = 16800000.0

4INTPER =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ...

0INTEXTPER = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = SET BACKY2 COOL-TEMP-SCH = SET BACKY1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ...

\$ SYSTEM DESCRIPTION

1SMCAHUSZR =SYSTEM SYSTEM-TYPE = SZRH

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YHTSEAS1

COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0

OA-CONTROL = ENTHALPY HEATING-CAPACITY = -800000.0

MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN YEAR

SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098

NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0

MIN-CFM-RATIO = 1.0 COOL-FT-MIN = 0.

PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT

ZONE-NAMES = (1EXTPER, 1INTPER) .

2SPERFC =SYSTEM SYSTEM-TYPE = TPFC

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1

FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2 SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF

COOL-FT-MIN = 0.

ZONE-NAMES = (2EXTPER, 2INTPER)

3SPERFC =SYSTEM SYSTEM-TYPE = TPFC

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1

FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2

SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF COOL-FT-MIN = 0. ZONE-NAMES = (3EXTPER, 3INTPER) ... 4SPERFC =SYSTEM SYSTEM-TYPE = TPFC MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1 FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2 SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF COOL-FT-MIN = 0. ZONE-NAMES = (4EXTPER, 4INTPER)SSZF2MID =SYSTEM SYSTEM-TYPE = SZRHMAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0 OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007 MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN YEAR SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT ZONE-NAMES = (2MIDL)SSFZ3MID =SYSTEM SYSTEM-TYPE = SZRHMAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0 OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007 MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN YEAR SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098 NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT ZONE-NAMES = (3MIDL)SSZF4MID =SYSTEM SYSTEM-TYPE = SZRH MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0 OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007 MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN YEAR SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT ZONE-NAMES = (4MIDL)OSMCAHUSZR =SYSTEM SYSTEM-TYPE = SZRHMAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YHTSEAS1 COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0 OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007 MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN YEAR SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 COOL-FT-MIN = 0.

> PREHEAT-SOURCE = HOT-WATER ZONE-NAMES = (0INTEXTPER)

\$ HOURLY REPORT DESCRIPTION

```
SY_1
     =REPORT-BLOCK VARIABLE-TYPE = 1SMCAHUSZR
                        VARIABLE-LIST = (49) ...
SY 2 = REPORT-BLOCK VARIABLE-TYPE = 2SPERFC
                        VARIABLE-LIST = (49) ...
SY 3
       =REPORT-BLOCK VARIABLE-TYPE = 3SPERFC
                        VARIABLE-LIST = (49) ...
SY 4
         =REPORT-BLOCK VARIABLE-TYPE = 4SPERFC
                        VARIABLE-LIST = (49) ...
SY 5
         =REPORT-BLOCK VARIABLE-TYPE = SSZF2MID
                        VARIABLE-LIST = (49) ...
    =REPORT-BLOCK VARIABLE-TYPE = SSFZ3MID
                        VARIABLE-LIST = (49) ...
SY 7 = REPORT-BLOCK VARIABLE-TYPE = SSZF4MID
                        VARIABLE-LIST = (49) ..
SY 8 = REPORT-BLOCK VARIABLE-TYPE = 0SMCAHUSZR
                        VARIABLE-LIST = (49) ...
Z_1
       =REPORT-BLOCK VARIABLE-TYPE = 1EXTPER
                        VARIABLE-LIST = (7,6) ...
         =REPORT-BLOCK VARIABLE-TYPE = 1INTPER
Z_2
                        VARIABLE-LIST = (7,6) ...
Z_3
         =REPORT-BLOCK VARIABLE-TYPE = 2EXTPER
                        VARIABLE-LIST = (7,6) ...
Z_4
        =REPORT-BLOCK VARIABLE-TYPE = 2INTPER
                        VARIABLE-LIST = (7,6) ...
Z_5
       =REPORT-BLOCK VARIABLE-TYPE = 3EXTPER
                        VARIABLE-LIST = (7,6) ...
Z_6
   =REPORT-BLOCK VARIABLE-TYPE = 3INTPER
                        VARIABLE-LIST = (7,6) ...
Z_7 =REPORT-BLOCK VARIABLE-TYPE = 4EXTPER
                        VARIABLE-LIST = (7,6) ...
   =REPORT-BLOCK VARIABLE-TYPE = 4INTPER
Z 8
                        VARIABLE-LIST = (7,6)
Z 9 = REPORT-BLOCK VARIABLE-TYPE = 2MIDL
                        VARIABLE-LIST = (7,6)
Z_{10}
         =REPORT-BLOCK VARIABLE-TYPE = 3MIDL
                        VARIABLE-LIST = (7,6) ...
         =REPORT-BLOCK VARIABLE-TYPE = 4MIDL
Z 11
                        VARIABLE-LIST = (7,6) ...
    =REPORT-BLOCK VARIABLE-TYPE = 0INTEXTPER
Z 12
                        VARIABLE-LIST = (7,6) ..
RS_1 = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (SY 1, SY 2, SY 3, SY 4)
RS_2 = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (SY_5, SY_6, SY_7, SY_8)
         = HOURLY-REPORT
                          REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (Z_1, Z_2)
RS_4 = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (Z_3, Z_4)
RS_5 = HOURLY-REPORT REPORT-SCHEDULE = ON_PKY
                        REPORT-BLOCK = (Z 5, Z 6)
      = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
```

```
REPORT-BLOCK = (Z 7, Z 8)
RS_7
         = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (Z 9, Z 10)
RS 8
          = HOURLY-REPORT REPORT-SCHEDULE = ON PKY
                        REPORT-BLOCK = (Z 11, Z \overline{12})
. .
END
COMPUTE SYSTEMS
INPUT PLANT ..
                $-----$
                $ E Z - D O E PLANTS INPUT$
                   $ GENERAL PROJECT DATA
TITLE LINE-1 *
                      ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
      LINE-3 * READING,
                                         19603
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
      LINE-5 *FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
ABORT
                  ERRORS
DIAGNOSTIC
                  WARNINGS ..
PLANT-REPORT
                  SUMMARY=(PS-C, PS-D, PS-H, BEPS)
                  REPORT-FREQUENCY = MONTHLY ...
                   $ SCHEDULES
D24FULON =DAY-SCHEDULE (1,24) (1.) ..
D24FULOF =DAY-SCHEDULE (1,24) (0.) ..
OFF PKDP
                         (1,7) (1.)
          =DAY-SCHEDULE
                         (8,19) (0.)
                         (20,24) (1.) ...
                         (1,7) (0.)
ON PKDP
          =DAY-SCHEDULE
                         (8,19) (1.)
                         (20,24) (0.) ...
W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON
W24FULOF7D =WEEK-SCHEDULE
                          (ALL) D24FULOF
OFF PKWP =WEEK-SCHEDULE
                          (WD) OFF PKDP
                          (WEH) D24FULON
ON PKWP =WEEK-SCHEDULE
                          (WD) ON PKDP
                          (WEH) D24FULOF
```

```
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ...
$ YRSCH HEATING SEAS1
YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
                     THRU OCT 15 W24FULOF7D
                     THRU DEC 31 W24FULON7D
$ YRSCH COOL SEAS1
YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D
                     THRU OCT 15 W24FULON7D
                     THRU DEC 31 W24FULOF7D
TEST 1
          =SCHEDULE THRU AUG 17 W24FULOF7D
                     THRU AUG 19 W24FULON7D
                     THRU DEC 31 W24FULOF7D
          =SCHEDULE THRU DEC 31 OFF PKWP
OFF PKYP
ON PKYP
        =SCHEDULE THRU DEC 31 ON PKWP
                    $ EQUIPMENT DESCRIPTION
HWBLR1
          =PLANT-EQUIPMENT
                             TYPE = HW-BOILER
                      SIZE = -999. ...
HCCC-CHILR =PLANT-EQUIPMENT TYPE = HERM-CENT-CHLR
                      SIZE = 7.8 \dots
MN-COOLTWR =PLANT-EQUIPMENT
                            TYPE = COOLING-TWR
                      SIZE = -999. ..
PLANT-PARAMETERS
                     BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2
                      TWR-WTR-SET-POINT = 85. TWR-PUMP-HEAD = 50.
                      TWR-CELL-MAX-GPM = 1.0 TWR-FAN-OFF-CFM = 0.1
                      CHILLER-CONTROL = STANDBY CHILL-WTR-T = 55.
                      CCIRC-HEAD = 100.0 CCIRC-DESIGN-T-DROP = 5.0
                      HCIRC-HEAD = 100.0 HCIRC-DESIGN-T-DROP = 25.0
ENERGY-RESOURCE
                     RESOURCE = FUEL-OIL
ENERGY-RESOURCE
                     RESOURCE = ELECTRICITY ...
                    $ HOURLY REPORT DESCRIPTION
P_1
          =REPORT-BLOCK VARIABLE-TYPE = HERM-CENT-CHLR
                         VARIABLE-LIST = (1,3,12,13) ...
P_2
           =REPORT-BLOCK VARIABLE-TYPE = COOLING-TWR
                         VARIABLE-LIST = (8,10,20,21) ...
          =REPORT-BLOCK VARIABLE-TYPE = HW-BOILER
                         VARIABLE-LIST = (1,3,4,7) ...
RP 1
           = HOURLY-REPORT REPORT-SCHEDULE = ON PKYP
                         REPORT-BLOCK = (P 1, P 2)
```

= HOURLY-REPORT REPORT-SCHEDULE = ON PKYP

REPORT-BLOCK = (P 3)

END COMPUTE PLANT .. INPUT ECONOMICS

\$ E Z - D O E E C O N O M I C S I N P U T \$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING

LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC* LINE-3 * READING,

LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ

LINE-5 *FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

ABORT ERRORS DIAGNOSTIC WARNINGS ..

ECONOMICS-REPORT VERIFICATION=(EV-B)

SUMMARY=(ES-D, ES-E) ..

\$ SCHEDULES

D24OFPKKWH =DAY-CHARGE-SCH (1,24) (4OFPKKWH) ...

DHTGDEMKWH =DAY-CHARGE-SCH (1,7) (40FPKKWH)

(8,19) (40FPKKWH, EONPKDMHTG)

(20,24) (40FPKKWH) ..

DCLGDEMKWH = DAY - CHARGE - SCH (1,7) (40FPKKWH)

(8,19) (EONPKKWH, EONPKDMCL)

(20,24) (40FPKKWH) ..

D24OFPKWH =DAY-CHARGE-SCH (1,24) (40FPKKWH) ...

WHTG (WD) DHTGDEMKWH =WEEK-SCHEDULE

(WEH) D24OFPKWH

WCLG =WEEK-SCHEDULE (WD) DCLGDEMKWH

(WEH) D24OFPKWH

\$ YRSCH ELEC1

YELEC1 =SCHEDULE THRU MAY 31 WHTG

THRU SEP 30 WCLG

THRU DEC 31 WHTG

\$ CHARGE ASSIGNMENT

4OFPKKWH =C-ARESOURCE = ELECTRICITY TYPE = ENERGY

UNIFORM-CHARGE = 0.0719

EONPKKWH =C-A RESOURCE = ELECTRICITY TYPE = ENERGY UNIFORM-CHARGE = 0.0801 ...

EONPKDMHTG = C-A RESOURCE = ELECTRICITY TYPE = DEMAND

UNIFORM-CHARGE = 8.57 ..

EONPKDMCL =C-A RESOURCE = ELECTRICITY TYPE = DEMAND

UNIFORM-CHARGE = 9.47 ..

\$ ENERGY COST

ENERGY-COST RESOURCE = FUEL-OIL UNIT = 138690.

UNIFORM-COST = .59 ..

ENERGY-COST RESOURCE = ELECTRICITY UNIT = 3413.

ASSIGN-SCHEDULE = YELEC1 ..

END ..

COMPUTE ECONOMICS ..

STOP ..

DOE-2.1D 6/26/1996 14:55:35 LDL RUN 1

 ENTECH
 ENGINEERING
 EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D
 6/26/1996
 14:55:35

 READING,
 PA
 19603
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FTMOACO - SIM MCA H20 ONLY W/OA SCHOOL
 FTMOACO - SIM MCA H20 ONLY W/OA SCHOOL
 REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN METU WEATHER FILE- NEWARK, NJ

UNI	TS=MBTU)	WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTA
	HEATNG	-272.143	-235.737	0.000	-2.939	-634.744	-273.952	90.257	21.964	302.375	139.833	0.000	-865.08
IAN	SEN CL	-88.805	-84.339	0.000	-6.694	-52. 5 99	-83.527	46.116	44.024	555.107	240.910	0.000	570.19
	LAT CL					0.000			36.621		0.000	0.000	36.62
		-218.424	-191.017	0.000		-533.922	-224.334	102.075	16.750	234.412	112.097	0.000	-704.81
EB	SEN CL	-87.312	-75.890	0.000	-7.318	-69.480	-85.655	61.199	43.069	543.078	232.517	0.000	554.20
	LAT CL					0.000			35.840		0.000	0.000	35.84
		-179.153		0.000	-0.896	-473.362	-188.526	110.535	15.468	218.676	98.211	0.000	-543.86
IAR	SEN CL	-92.850	-85.440	0.000	-10.027	-104.621	-98.050	109.224	55.576	698.190	296.472	0.000	768.47
	LAT CL					1.353			46.222		0.000	0.000	47.57
	HEATNG	-85.349	-65.463	0.000	-0.070	-202.330	-90.633	66.229	7.398	108.121	49.780	0.000	-212.31
APR	SEN CL	-71.480	-54.761	0.000	-9.954	-97.012	-92.076	181.122	58.424	745.584	324.314	0.000	984.16
	LAT CL					10.991			47.597 		0.000	0.000	58.58
	HEATNG	-42.064	-31.012	0.000	0.000	-93.948	-44.586	37.149	3.678	56.766	27.623	0.000	-86.39
AY	SEN CL	-36.767	-13.580	0.000	-8.090	-63.422	-68.791	252.767	62.335	801.088	353.208	0.000	1278.74
	LAT CL					45.072			50.670		0.000	0.000	95. 74
	HEATNG	-5.192	-4.771	0.000	0.000	-8.496	-5.522	4.896	0.530	8.609	4.277	0.000	-5.66
UN	SEN CL	12.210	42.748	0.000	-5.639	17.368	-29.364	266.725	67.590	871.311	375.945	0.000	1618.89
	LAT CL					131.621			54.193		0.000	0.000	185.81
	HEATNG	-0.957	-0.927	0.000	0.000	-2.463	-1.053	0.941	0.137	2.316	1.200	0.000	-0.80
IUL	SEN CL	37.004	64.735	0.000	-3.864	44.720	-9.099	278.968	63.686	830.929	373.892	0.000	1680.97
	LAT CL					174.480			50.873		0.000	0.000	225.35
	HEATNG	-4.534	-4.023	0.000	0.000	-5.615	-4.698	2.765	0.388	6.648	3.810	0.000	-5.25
UG	SEN CL	18.893	43.115	0.000	-2.618	25.941	-22.592	255.873	70.525	908.241	390.393	0.000	1687.77
	LAT CL					168.708			56.571		0.000	0.000	225.27
	HEATNG	-13.768	-12.033	0.000	0.000	-22.322	-14.263	10.316	1.427	21.523	10.213	0.000	-18.90
EP	SEN CL	-29.372	-8.509	0.000	-2.428	-46.479	-59.584	216.242	64.243	829.882	363.324	0.000	1327.31
	LAT CL					114.185			51.602		0.000		165.78
			-50.966								40.759		-133.03
CT	SEN CL	-69.273	-60.550	0.000	-3.516	-87.576	-88.728	157.492	58.247	747.498	333.778	0.000	987. 37
	LAT CL					19.721			47.506		0.000		67.22
			-119.464								79.471		-386.24
voi	SEN CL	-83.307	-80.952	0.000	-5.148	-74.613	-84.796	69.595	51.424	651.692	287.342	0.000	731.23
	LAT CL					17.222			42.566		0.000		59.78
			-202.021								129.441		
EC	SEN CL	-85.360	-86.599										
	LAT CL					0.000			37.607		0.000		37.60

HEATNG -1270.234 -1062.250 0.000 -8.032 -2997.727 -1306.058 605.806 105.839 1502.228 696.708

0.000 -3733.721

TOT SEN CL -576.415 -400.023 0.000 -71.346 -565.898 -803.641 1940.944 684.535 8755.893 3824.610 0.000 12788.659

LAT CL 683.358 557.718 0.000 0.000 1241.076

EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 REPORT- SV-A SYSTEM DESIGN PARAMETERS 1SMCAHUSZR WEATHER FILE- NEWARK, NJ ______ SYSTEM ALTITUDE MULTIPLIER NAME 1SMCAHUSZR 1.000 OUTSIDE COOLING HEATING COOLING HEATING SUPPLY RETURN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY FAN ELEC DELTA-T FAN EIR RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (CFM) (KW) (F) (CFM) (KW) (F) 30680. 30.066 2.4 0. 0.000 0.0 0.150 1162.387 0.690 -800.000 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION SUPPLY EXHAUST AIR CAPACITY SENSIBLE ZONE FAN FLOW RATE CAPACITY NAME FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

3888.

714.

0.00

0.00

0.00 559.87

0.00 102.82

0.00 -488.64

0.00 -89.73

1.0

1.0

25920.

4760.

1EXTPER

1INTPER

0.000

0.000

0.

0.

1.000

NGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 ENTECH ENGINEERING READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS 2SPERFC WEATHER FILE- NEWARK, NJ SYSTEM ALTITUDE NAME MULTIPLIER 2SPERFC 1.000 SUPPLY OUTSIDE COOLING RETURN HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 49470. 0.000 0.000 0.0 0.000 0.000 0.000 0.2 0. 0.000 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION EXHAUST ZONE SUPPLY FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY RATE NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) MULTIPLIER

0. 954.80

0. 756.73

0.70 598.41 -1422.16 -1428.11

0.70 469.97 -1116.79 -1121.46

1.0

2EXTPER

2INTPER

27710.

21760.

0.

0.

1.940

1.523

1.000

NGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 ENTECH ENGINEERING READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS 3SPERFC WEATHER FILE- NEWARK, NJ _____ ALTITUDE SYSTEM NAME MULTIPLIER 3SPERFC 1.000 OUTSIDE COOLING HEATING COOLING HEATING RETURN SUPPLY AIR CAPACITY SENSIBLE CAPACITY FAN ELEC DELTA-T FAN ELEC DELTA-T (KW) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (CFM) (KW) (F) (CFM) (F) RATIO (KBTU/HR) 49470. 0.000 0.2 0. 0.000 0.0 0.000 0.000 0.000 0.000 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION ZONE SUPPLY EXHAUST FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY RATE NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

0. 954.80 0.70 598.44 -1422.16 -1428.11

0. 756.73 0.70 469.97 -1116.79 -1121.46

1.0

1.0

3EXTPER

3 INTPER

27710.

21760.

0.

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1.940

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1.000

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PA 19603 4130.05 FT. MONMOUTH ENTECH ENGINEERING DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 READING, 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 REPORT- SV-A SYSTEM DESIGN PARAMETERS 4SPERFC WEATHER FILE- NEWARK, NJ ______ SYSTEM ALTITUDE MULTIPLIER NAME 4SPERFC 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 58060. 0.000 0.2 0. 0.000 0.0 0.000 0.000 0.000 0.000 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION SUPPLY EXHAUST FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY RATE NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER 4EXTPER 32540. 0. 2.278

0. 1112.80

0. 873.11

0.70 702.80 -1670.05 -1677.03

0.70 551.02 -1309.76 -1315.24

1.0

1.0

1.000

1.000

4 INTPER

25520.

0.

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS SSZF2MID WEATHER FILE- NEWARK, NJ ------SYSTEM ALTITUDE MULTIPLIER NAME SSZF2MID 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (CFM) (KW) (F) (CFM) (KW) (F) 24400. 23.912 2.4 0. 0.000 0.0 0.150 925.890 0.690 -1464.441 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION SUPPLY EXHAUST FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY RATE NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) MULTIPLIER

2MIDL

24400.

0.

0.000 1.000 3660. 0.00 0.00 527.04

0.00 -1264.90

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 REPORT- SV-A SYSTEM DESIGN PARAMETERS SSFZ3MID WEATHER FILE- NEWARK, NJ ------SYSTEM ALTITUDE MULTIPLIER NAME SSFZ3MID 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 29850. 29.253 2.4 0. 0.000 0.0 0.150 1132.830 0.690 -1791.540 0.00 0.00 EXTRACTION HEATING ADDITION MINIMUM OUTSIDE COOLING ZONE SUPPLY EXHAUST FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY

FLOW (KBTU/HR)

0.000 1.000 4478. 0.00 0.00 644.76 0.00 -1547.42 1.0

(SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

NAME

3MIDL

FLOW

29850. 0.

FLOW

(KW)

RATIO

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 READING, SSZF4MID WEATHER FILE- NEWARK, NJ REPORT - SV-A SYSTEM DESIGN PARAMETERS ______ ALTITUDE SYSTEM MULTIPLIER NAME SSZF4MID 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY FAN ELEC DELTA-T (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 30070. 29.469 2.4 0. 0.000 0.0 0.150 1135.188 0.691 -1804.744 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION ZONE SUPPLY EXHAUST FAN FLOW AIR CAPACITY SENSIBLE RATE CAPACITY RATE FLOW (KW) NAME FLOW RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

0.000 1.000 4511. 0.00 0.00 649.51 0.00 -1558.83

1.0

4MIDL

30070. 0.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1

DING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS OSMCAHUSZR WEATHER FILE- NEWARK, NJ SYSTEM ALTITUDE NAME MULTIPLIER 0SMCAHUSZR 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING ELEC DELTA-T FAN ELEC DELTA-T FAN AIR CAPACITY SENSIBLE CAPACITY EIR (F) (CFM) (KW) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 17920. 17.562 2.4 0. 0.000 0.0 0.150 675.350 0.691 -1075.524 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION ZONE SUPPLY EXHAUST FAN AIR CAPACITY SENSIBLE RATE CAPACITY FLOW RATE NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

2688. 0.00 0.00 387.07 0.00 -928.97

1.0

17920. 0. 0.000 1.000

OINTEXTPER

ENTECH ENGINEERING READING,

H ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

			СО	OLI	NG-				H E	АТІ	N G		E L	E C
						MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	Т	IME	DRY-	WET-	COOLING	HEATING	7	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-806.201	5	20	15.F	12.F	-3786.090	417143.	1420.651
FEB	0.00000					0.000	-635.981	20	3	10.F	7.F	-4087.203	376069.	1420.651
MAR	0.00000					0.000	-432.909	5	1	29.F	24.F	-2218.542	439182.	1420.651
APR	0.00000					0.000	-126.976	11	6	35.F	35.F	-1706.639	419518.	1420.651
MAY	485.67633	26	15	86. F	71.F	6298.961	-12.614	4	2	40.F	35.F	-279.126	433551.	1420.651
JUN	1665.38916	13	15	98.F	74.F	7296.639	0.000					0.000	433468.	1420.651
JUL	1847.39661	13	14	90.F	73.F	6964.448	0.000					0.000	419270.	1420.651
AUG	1843.29443	18	15	94.F	74.F	7204.293	0.000					0.000	450948.	1420.651
SEP	1157.01685	20	14	83.F	72.F	6181.995	0.000					0.000	420016.	1420.651
OCT	205.22958	14	15	77.F	62.F	4954.120	-22.207	26	6	43.F	40.F	-776.548	412488.	1420.651
NOV	0.00000					0.000	-288.533	25	6	38.F	37.F	-2276.397	401453.	1420.651
DEC	0.00000					0.000	-702.332	26	7	25.F	24.F	-2637.494	416299.	1420.651
TOTAL	7204.001						-3027 .752						503 9503.	
MAX						7296 .639						-4087.203		1420.651

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SMCAHUSZR

		c o	OLI	NG-			- - -	нЕ	АТІ	N G		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	T	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-0.850	3	6	31.F	28.F	-197.626	56271.	203.731
FEB	0.00000				0.000	-0.268	7	7	15.F	13.F	-29.149	50885.	203.731
MAR	0.00000				0.000	-0.012	25	6	28.F	25.F	-7.991	59973.	203.731
APR	0.00000				0.000	0.000					0.000	58205.	203.731
MAY	53.54640	26 14	83.F	71.F	879.738	-0.057	10	17	87.F	68.F	-9.676	60931.	203.731
JUN	206.00967	13 13	95. F	75.F	988.951	0.000					0.000	60477.	203.731
JUL	227.73489	19 14	85.F	74.F	939.398	0.000					0.000	58178.	203.731
AUG .	237.14639	18 16	91.F	77.F	990.470	0.000					0.000	62318.	203.731
SEP	142.15143	20 12	80.F	75.F	939.177	0.000					0.000	57874.	203.731
OCT	18.88570	14 14	75.F	61.F	705.816	0.000					0.000	56284.	203.731
NOV	0.00000				0.000	0.000					0.000	54430.	203.731
DEC	0.00000				0.000	-0.210	8	6	19.F	17.F	-29.654	56301.	203.731
TOTAL	885.475					-1.398						692103.	
MAX					990.470						-197.626		203.731

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SPERFC

WEATHER FILE- NEWARK, NJ

			со	O L I	NG-				не	ATI	NG-		E L	E C
						MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	т	IME	DRY-	WET-	COOLING	HEATING	Т	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-204.373	5	20	15.F	12.F	-1172.794	49885.	176.678
FEB	0.00000					0.000	-161.799	20	3	10.F	7.F	-1115.597	45103.	176.678
MAR	0.00000					0.000	-108.891	5	1	29.F	24.F	-669.678	52738.	176.678
APR	0.00000					0.000	-31.192	11	4	37.F	36.F	-479.441	49242.	176.678
MAY	86.59464	16	2	70.F	64.F	1289.167	-2.907	2	22	50.F	39.F	-62.214	49885.	176.678
MDL	246.58362	13	15	98. F	74.F	999.814	0.000					0.000	50668.	176.678
JUL	267.83667	13	14	90. F	73.F	949.750	0.000					0.000	48459.	176.678
AUG .	258.52383	18	15	94.F	74.F	1005.357	0.000					0.000	52738.	176.678
SEP	180.10347	7	15	82.F	64.F	796.730	0.000					0.000	49242.	176.678
OCT	45.34973	14	15	77.F	62.F	663.986	-3.223	26	6	43.F	40.F	-155.664	48459.	176.678
NOV	0.00000					0.000	-67.506	25	6	38.F	37.F	-630.040	47816.	176.678
DEC	0.00000					0.000	-182.107	26	7	25.F	24.F	-686.903	49885.	176.678
TOTAL	1084.992						-761.998						594129.	
MAX						1289.167						-1172.794		176.678

WEATHER FILE- NEWARK, NJ

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SPERFC

		C	:00LI	N G -				- н е	A T I	N G		E L	E C
	goor two			Land	MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING ENERGY	TIM OF MA		WET- BULB	COOLING LOAD	HEATING ENERGY		MAX	DRY-	WET-	HEATING	TRICAL	ELEC
MONTH	(MBTU)	DY H			(KBTU/HR)	(MBTU)		HR	BULB	BULB	LOAD (KBTU/HR)	ENERGY	LOAD
	(1.525)	J. 1.		12	(IBTO/IIK)	(PEIO)	DI	nĸ	LEMP	TEMP	(KBIO/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-204.383	5	20	15.F	12.F	-1172.817	49885.	176.678
FEB	0.00000				0.000	-161.807	20	3	10.F	7.F	-1115.619	45103.	176.678
MAR	0.00000				0.000	-108.895	5	1	29.F	24.F	-669.697	52738.	176.678
APR	0.00000				0.000	-31.193	11	4	37.F	36.F	-479.449	49242.	176.678
MAY	86.59817	16	2 70.F	64.F	1289.196	-2.907	2	22	50.F	39.F	-62.215	49885.	176.678
JUN	246.59200	13 1	.5 98.F	74.F	999.837	0.000					0.000	50668.	176.678
ur	267.84625	13 1	4 90.F	73.F	949.770	0.000					0.000	48459.	176.678
AUG .	258.53091	18 1		74.F	1005.376	0.000					0.000	52738.	176.678
SEP	180.10663	7 1		64.F	796.743	0.000					0.000	49242.	176.678
OCT	45.34949	14 1	.5 77. F	62.F	663.989	-3.223	26	6		40.F	-155.696	48459.	176.678
NOV	0.00000				0.000	-67.511	25	6		37.F	-630.055	47816.	176. 67 8
DEC	0.00000				0.000	-182.117	26	7	25.F	24.F	-686.924	49885.	176.678
TOTAL	1085.023					-762.036						594129.	
MAX					1289. 196						-1172.817		176.678

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SPERFC

WEATHER FILE- NEWARK, NJ

		·	СО	OLI	и G - ·	 .			нЕ	АТІ	N G		E L	E C
						MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	т	IME	DRY-	WET-	COOLING	HEATING	т	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF		BULB	BULB	LOAD	ENERGY		MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-345.504	5	20	15.F	12.F	-1440.479	50332.	177.279
FEB	0.00000					0.000	-277.102	20	3	10.F	7.F	-1388.293	45508.	177.279
MAR	0.00000					0.000	-204.234	5	1	29.F	24.F	-879.167	53185.	177.279
APR	0.00000					0.000	-63.949	9	4	32.F	27.F	-725.252	49675.	177.279
MAY	79.56396	26	15	86.F	71.F	939.903	-6.514	4	4	39.F	35.F	-231.386	50332.	177.279
JUN	261.59937	13	15	98.F	74.F	1180.491	0.000					0.000	51101.	177.279
JUL	294.83423	13	14	90.F	73.F	1084.089	0.000					0.000	48906.	177.279
AUG	274.80002	18	15	94.F	74.F	1154.626	0.000					0.000	53185.	177.279
SEP	170.26332	7	14	82.F	64.F	896.833	0.000					0.000	49675.	177.279
OCT	30.41889	14	15	77.F	62.F	647.320	-15.717	25	6	41.F	36.F	-500.299	48906.	177.279
NOV	0.00000					0.000	-145.622	25	6	38.F	37.F	-792.909	48249.	177.279
DEC	0.00000					0.000	-307.718	26	7	25.F	24.F	-906.660	50332.	177.279
TOTAL	1111.481						-1366.360						599332.	
MAX						1180.491						~1440.479		177.279

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSZF2MID WEATHER FILE- NEWARK, NJ

	C O O L I N G								нЕ	АТІ	N G -		E L	E C
						MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TI	IME	DRY-	WET-	COOLING	HEATING	7	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF N	1AX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-0.140	17	4	16.F	14.F	-22.945	53835.	184.421
FEB	0.00000					0.000	-0.346	20	4	9. F	7.F	-28.400	48580.	184.421
MAR	0.00000					0.000	0.000					0.000	57080.	184.421
APR	0.00000					0.000	0.000					0.000	54998.	184.421
MAY	48.87048	26	14	83.F	71.F	722.120	-0.041	10	17	87.F	68.F	-7.125	56681.	184.421
JUN	178.64218	13	13	95. F	75.F	790.296	0.000					0.000	55556.	184.421
JUL	194.48663	19	14	85.F	74.F	767.954	0.000					0.000	53755.	184.421
AUG .	204.10178	18	16	91.F	77.F	795.853	0.000					0.000	57964.	184.421
SEP	130.62488	20	12	80.F	75.F	775.442	0.000					0.000	53994.	184.421
OCT	20.88273	14	15	77.F	62.F	600.384	0.000					0.000	54018.	184.421
NOV	0.00000					0.000	0.000					0.000	52575.	184.421
DEC	0.00000					0.000	-0.007	27	5	21.F	19.F	-7.429	53787.	184.421
TOTAL	777.609						-0.535						652815.	
MAX						795.853						-28.400		184.421

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSFZ3MID WEATHER FILE- NEWARK, NJ

The state of the s

		c o	o L I	и G -			H E	АТІ	N G		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-0.122	17 5	16.F	14.F	-26.723	66437.	226.834
											0012	220,000
FEB	0.00000				0.000	-0.417	20 4	9.F	7.F	-34.467	59946.	226.834
MAR	0.00000				0.000	0.000				0.000	70397.	226.834
APR	0.00000				0.000	0.000				0.000	67767.	226.834
MAY	60.04546	26 14	83.F	71.F	884.621	-0.050	10 17	87.F	68.F	-8.944	69713.	226.834
JUN	219.02705	13 13	95. F	75.F	967.301	0.000				0.000	68343.	226.834
JUL	238.13353	19 14	85.F	74.F	940.303	0.000				0.000	66095.	226.834
AUG	250.13724	18 16	91.F	77.F	973.837	0.000				0.000	71274.	226.834
SEP	160.69432	20 12	80.F	75.F	950.956	0.000				0.000	66422.	226.834
OCT	25.98936	14 15	77.F	62.F	735.752	0.000				0.000	66475.	226.834
NOV	0.00000				0.000	0.000				0.000	64822.	226.834
DEC	0.00000				0.000	0.000				0.000	66378.	226.834
TOTAL	954.027					-0.589					804023.	
MAX					973.837					-34.467		226.834

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REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSZF4MID

WEATHER FILE- NEWARK, NJ

			со	OLI	N G -			- 	нЕ	АТІ	NG-		E L	E C
						MAXIMUM						MAXIMUM	FLEC	MANAGEMENT
	COOLING	т	IME	DRY-	WET-	COOLING	HEATING	т	IME	DRY-	WET-	HEATING	ELEC- TRICAL	MAXIMUM ELEC
	ENERGY		MAX	BULB	BULB	LOAD	ENERGY		MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-46.775	10	6	19.F	17.F	-440.053	52613.	174.320
FEB	0.00000					0.000	-32.560	20	7	8.F	6.F	-516.131	46702.	174.320
MAR	0.00000					0.000	-10.812	6	7	34.F	31.F	-278.698	53734.	174.320
APR	0.00000					0.000	-0.642	11	6	35.F	35.F	-176.844	51724.	174.320
MAY	42.36839	26	14	83.F	71.F	761.691	-0.102	3	6	39.F	33.F	-18.083	55324.	174.320
JUN	187.35571	13	13	95. F	75.F	906.793	0.000					0.000	56277.	174.320
JUL	217.72856	29	13	88.F	73.F	856.526	0.000					0.000	54660.	174.320
AUG .	218.72540	17	13	86.F	74.F	869.120	0.000					0.000	58390.	174.320
SEP	113.27917	20	12	80.F	75.F	771.033	0.000					0.000	54199.	174.320
OCT	9.77956	14	14	75.F	61.F	572.149	-0.044	25	6	41.F	36. F	-15.953	50534.	174.320
NOV	0.00000					0.000	-7.841	14	6	31.F	27.F	-296.989	48790.	174.320
DEC	0.00000					0.000	-29.089	27	5	21.F	19.F	-399.486	51670.	174.320
TOTAL	789.237						-127.865						634615.	
MAX						906.793						-516.131		174.320

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSMCAHUSZR WEATHER FILE- NEWARK, NJ

	C O O L I N G						HEATING						E L	E C
						MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	Т	IME	DRY-	WET-	COOLING	HEATING	1	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF 1	MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-4.054	10	6	19.F	17.F	-221.000	37887.	100.709
FEB	0.00000					0.000	-1.681	7	6	14.F	12.F	-235.263	34243.	100.709
MAR	0.00000					0.000	-0.065	24	6	30.F	26.F	-15.548	39339.	100.709
APR	0.00000					0.000	0.000					0.000	38667.	100.709
MAY	28.08884	26	14	83.F	71.F	489.535	-0.035	10	17	87.F	68.F	-5.218	40802.	100.709
JUN	119.57966	13	13	95.F	75.F	569.703	0.000					0.000	40376.	100.709
JUL	138.79631	29	13	88.F	73.F	532.865	0.000					0.000	40760.	100.709
AUG .	141.32867	18	16	91.F	77.F	562.700	0.000					0.000	42342.	100.709
SEP	79.79346	20	12	80.F	75.F	515.543	0.000					0.000	39369.	100.709
OCT	8.57403	14	14	75.F	61.F	383.748	0.000					0.000	39355.	100.709
VON	0.00000					0.000	-0.053	9	6	29.F	25.F	-16.791	36957.	100.709
DEC	0.00000					0.000	-1.083	27	6	21.F	19.F	-137.388	38062.	100.709
TOTAL	516.161						-6.972						468189.	
MAX						569.703						-235.263		100.709

REPORT- PV-A EQUIPMENT SIZES

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
EQUIPMENT	SIZE INSTD					
	(MBTU/H) AVAIL					
HW-BOILER	4.101 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1

REPORT- PS-C EQUIPMENT PART LOAD OPERATION

19603 PA

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

EQUIPMENT			Н	OURS A	r perc	ENT PA	RT LOAI	D RATI	0			TOTAL	ANNUAL LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)	
	0 10	20	30	40	50	60	70	80	90	100	0 - 110+					
HW-BOILER	2827 2827	616 616	63 4 63 4	478 478	311	139 139	41 41	28	9	4	1	5088	3096.9	0.0	202.4	4504.8
HERM-CENT-CHLR	1286 1286	825 825	408	207	244	352 352	266	81	3	0	0	3672	8366.2	0.0	1972.7	0.0
COOLING-TWR	1660	651	227	116	89	77	68	102	125	115	442	3672	10338.9	0.0	807.7	0.0
	1660	651	227	116	89	77	68	102	125	115	442					

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1

REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3096.9	100.0
HW-BOILER		100.0
	223905055555	**************
LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8366.2	100.0
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	
ELECTRICAL LOADS	METTI CIIDDI TED	ממט משטים של משטים
	PEDIO SOFFEIED	FCI OF TOTAL BOAD
ELECTRICITY	21337.4	100.0
	330503222222	
LOAD SATISFIED	21337.4	100.0
TOTAL LOAD ON PLANT	21337.4	100.0
TOTAL HOAD ON PLANT	21331.3	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 86.F

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1

REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEWARK, NJ

-----(CONTINUED)------

SUMMARY OF LOADS MET

	TOTAL	LOAD	TOTAL	PEAK	HOURS
TYPE OF LOAD	LOAD	SATISFIED	OVERLOAD	OVERLOAD	OVERLOADED
	(MBTU)	(MBTU)	(MBTU)	(MBTU)	
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	0
ELECTRICAL LOADS	21337.3	21337.4	0.000	0.000	0

ENTECH ENGINEERING READING,

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PA 19603 4130.05 FT. MONMOVERING

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1

REPORT- PS-H EQUIPMENT USE STATISTICS

COOLING-TWR 0.296 9.214 6 13 15 2.379 14688

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

-----AVG MAX MON EQUIPMENT OPER LOAD DAY SIZE OPER SIZE OPER SIZE OPER SIZE OPER HR (MBTU) HRS (MBTU) HRS (MBTU) HRS (MBTU) HRS (MBTU) HRS RATIO (MBTU) -----------HW-BOILER 0.148 4.101 2 20 3 4.101 5088 HERM-CENT-CHLR 0.292 7.613 6 13 15 7.800 3672

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

вопіьмвиц	NUMBER SIZE INSTD (MBTU/H) AVAIL					
HW-BOILER	4.712 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					
CTANK-STORAGE	73.200 1 1					

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W
REPORT- PS-C EQUIPMENT PART LOAD OPERATION MRATHED BYIR. ME 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA HOLO ONLY W/OA SCHOL
ATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	0 10	20		HOURS A						0 1	00 - 110	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)
HW-BOILER	2851 2851	617 617	617 617	459 459	307 307	134 134	57 57	32 32	9	4	1	5088	353 2.8	0.0	229.0	5128.5
HERM-CENT-CHLR	424 424	57 57	39 39	21 21	19 19	16 16	17 17	17 17	8	236 236	982 982	1836	8721.1	0.0	2401.3	0.0
COOLING-TWR	468 468	53 53	22 22	11 11	12 12	14 14	9	4	3		1226 1226	1836	11122.4	0.0	411.5	0.0
CTANK-STORAGE	166 1738	152	172 0	266	212	169	218	216	111	28	28	1738	5723.4	0.0	0.0	0.0

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 177.2 MBTU
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 950.4 MBTU

- NOTES TO TABLE

 1) THE PIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
 - 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:41:33
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1 10:41:33 PDL RUN 1

WEATHER PILE- NEWARK, NJ

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD HW-BOILER 3532.8 100.0 -----************ LOAD SATISFIED 3532.8 100.0 TOTAL LOAD ON PLANT 3532.8 MBTU SUPPLIED COOLING LOADS PCT OF TOTAL LOAD HERM-CENT-CHLR 8721.1 98 2 -----LOAD SATISFIED 8721.1 98.2 TOTAL LOAD ON PLANT 8877.2 BLECTRICAL LOADS MBTU SUPPLIED PCT OF TOTAL LOAD -----BLECTRICITY 23174.3 100.0 ********** 30000000000000000 LOAD SATISFIED 23174.3 100.0 TOTAL LOAD ON PLANT 23174.2 STORAGE TANK USE MBTU STORED MBTU RETURNED MBTU LOST MBTU RESIDUAL ----------CTANK-STORAGE

5798.4

5723.4

1.71

73.27

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 0 HOURS

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-D PLANT LOADS SATISFIED WEATHER PILE- NEWARK, NJ (CONTINUED)------

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3532.8 8877.2	3532.8 8721.1	0.000 671.417	0.000	0 218
ELECTRICAL LOADS	23174.2	23174.3	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA HZO ONLY M/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

	AVG	MAX	MON					
RQUIPMENT	OPER	LOAD	DAY	SIZE OPER	SIZE OPER	SIZE OPER	SIZE OPER	SIZE OPER
	RATIO	(MBTU)	HF	(MBTU) HRS	(MBTU) HRS	(MBTU) HRS	(MBTU) HRS	(MBTU) HRS
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.609	6.719	5 27 21	7.800 1836				
COOLING-TWR	0.637	8.526	7 28 22	2.379 7344				
CTANK-STORAGE	0.457	7.272	6 13 15	73.200 1738				

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:41:33
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ 10:41:33 PDL RUN 1 Hadring Till Hadrag, No

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2812.84	0.00
HVAC AUX	5352.46	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.49	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
TOTAL	23174.17	5128.55

TOTAL SITE ENERGY 28302.79 MBTU 85.9 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 74720.99 MBTU 226.8 KBTU/SQFT-YR GROSS-AREA

85.9 KBTU/SOFT-YR NET-AREA 226.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7

PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYBR CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
EQUIPMENT	SIZE INSTD					
	(MBTU/H) AVAIL					
HW-BOILER	4.712 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

ENTECH ENGINEERING 82DOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	0 10	20					ART LOAI			90 :	100 - 11 0	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)
HW-BOILER	2851 2851	617 617	617 617	459 459	307 307	134 134	57 57	32 32	9		1	5088	3532.8	0.0	229.0	5128.5
HERM-CENT-CHLR	1092 1092	504 504	749 749	469 469	312 312	340 340	170 170	36 36	0		_	3672	8802.2	0.0	1987.2	0.0
COOLING-TWR	1230 1230	587 587	542 542	328 328	143 143	106 106	122 122	122 122	112 112	89 89	291 291	3672	10789.4	0.0	813.3	0.0

HOT LOOP CIRCULATION PUMP BLECTRICAL USB = 177.2 MBTU COLD LOOP CIRCULATION PUMP BLECTRICAL USB = 950.4 MBTU

NOTES TO TABLE

- THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS		PCT OF TOTAL LOAD
HW-BOILER	3532.8	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	3532.8 3532.8	100.0
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8802.2	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	8802.2 8802.2	100.0
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	23162.0	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	23162.0 23161.8	100.0

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 86.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED	
HEATING LOADS	3532.8	3532.8	0.000	0.000	0	
COOLING LOADS	8802.2	8802.2	0.000	0.000	0	
BLECTRICAL LOADS	23161.8	23162.0	0.000	0.000	0	

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

BQUIPMBNT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZB OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.307	7.282	8 18 15	7.800 3672				
COOLING-TWR	0.309	8.785	8 18 15	2.379 14688				

ENTECH ENGINEERING BZDOE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2800.53	0.00
HVAC AUX	5352.49	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.54	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.39	0.00
TOTAL	23161.97	5128.55

TOTAL SITE ENERGY 28290.50 MBTU 85.9 KBTU/SQFT-YR GROSS-AREA 85.9 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 74684.07 MBTU 226.6 KBTU/SQFT-YR GROSS-AREA 226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1 PA READING, 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 . HOURLY-PEPORT PAGE 1- 1 MMDDHH HERM-CEN HERM-CEN HERM-CEN HERM-CEN COOLING- COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD ELECTRIC ENTERING LEAVING WATER DANCE PAN DIMP USB COND TEM COLD TEM FLOWRATE ELEC BLEC BTU/HR BTU/HR GAL/MIN BTU/HR BTU/HR P R ----(1) ----(3) ----(8) ----(10) ----(12) ---- (13) ----(20) ---- (21) MONTHLY SUMMARY (JAN) ٥. 0. 0.0 0.0 0.0 0. 0.0 ٥. мx 0. 0. 0.0 0.0 0.0 0.0 0. 0. SM ٥. ο. 0.0 0.0 0.0 0.0 0 0. AV 0. ٥. 0.0 0.0 0. ٥. 0.0 0.0 MONTHLY SUMMARY (FEB) 0. MN 0. 0.0 0.0 0.0 0.0 0. 0 0. MX ο. 0.0 0.0 0.0 0.0 0. ٥. SM ٥. 0.0 0.0 0.0 0.0 Ο. AV 0. ٥. 0.0 0.0 0.0 0.0 0. Ο. MONTHLY SUMMARY (MAR) MN 0. ο. 0.0 0.0 MX ο. 0. 0.0 0.0 0.0 0.0 0. ٥. SM ٥. ο. 0.0 0.0 0.0 0 0 n n AV 0. 0.0 0.0 0.0 0.0 0. 0. MONTHLY SUMMARY (APR) ٥. MN 0.0 0.0 0.0 0.0 ٥. 0. ο. MX 0. 0. 0.0 0.0 0.0 0.0 0. SM 0. 0. 0.0 0.0 0.0 0.0 0. Ο. ΑV 0. 0. 0.0 ٥. 0.0 0.0 0.0 ٥. MONTHLY SUMMARY (MAY) О. MN 0. 0.0 0.0 0.0 0.0 ٥. 0. 6348487. 1259033. 80.3 1950.0 140410. 56.0 7.9 90465. CM 592633024. 149378288. 25573.0 20852.3 748800.1 792.5 46451604. 34738696. 796550. ΑV 200777. 34.4 28.0 1006.5 1.1 62435. 46692. MONTHLY SUMMARY (JUN) 302722. 7271629. 142762. MIN 64.6 53.9 1950.0 0.5 106446. 90465. ΜX 1508870. 84.1 56.3 1950.0 140410. 9.1 90465 1993556224. 434153376. 50592.8 39414.0 1404000.1 2548.0 96531648. 65135048. AV 2768828. 602991. 70.3 54.7 1950.0 3.5 134072. 90465 MONTHLY SUMMARY (JUL) 90465. MN 302722. 142762. 64.4 53.9 1950.0 0.5 112750. 7050099. ΜX 1439969. 82.5 56.3 1950.0 40805.5 1450800.1 8.8 140410. 90465. 2276703488. 485572096. 53494.1 102251000. 67306216. ΔV 3060085. 652651. 71.9

BZDOB - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING DOE-2.1D 6/12/1996 10:22:54 PDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 - HOURLY-REPORT PAGE 2- 1 HBRM-CEN HERM-CEN HERM-CEN HERM-CEN COOLING- COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD ELECTRIC ENTERING LEAVING WATER RANGE PAN PUMP USR COND TEM COLD TEM FLOWRATE RLEC RIRC BTU/HR BTU/HR GAL/MIN R BTTI/HR F BTU/HR ----(1) ----(3) ----(12) ----(13) ----(8) ----(10) ---- (20) ---- (21) MONTHLY SUMMARY (AUG) 0.5 9.1 302722. 142762. 64.5 53.9 1950.0 107603. 90465. 7281769. MX 1503519. 85.6 56.3 1950.0 140410. 90465. 2224733696. SM 480761472. 53669.2 40786.8 1450800 1 2834.7 101112896 67306216. AV 2990234. 646185. 72.1 54.8 3.8 1950.0 135904. 90465. MONTHLY SUMMARY (SEP) 302722. 0.5 142762 MN 64.5 53.9 1950.0 106446. 90465. 6235474. MX 1244477 82.3 56.0 1950 0 7.7 140410. 90465. 1422730752. 342039488. 49467.6 39209.6 1404000.1 1868.7 93164680. 65135048. ΑV 1976015. 475055. 68.7 54.5 1950.0 2.6 129395. 90465. MONTHLY SUMMARY (OCT) 0. 0.0 0.0 0.0 0.0 ο. 0. MX 5014499. 925996. 71.0 55.5 1950.0 6.2 140410. 90465. SM. 291873184. 95304560. 23507.7 19454.6 702000.1 426.8 41607896. 32567528. 128098. AV 392303. 31.6 26.1 943.5 0.6 55925. 43774 MONTHLY SUMMARY (NOV) 0. 0.0 0.0 MN 0. 0.0 0.0 Λ ٥. 0. ΜX 0. 0.0 0.0 0.0 0.0 0. 0. SM ٥. Ο. 0.0 0.0 0.0 AV 0. ٥. 0.0 0.0 0.0 0.0 0. ٥. MONTHLY SUMMARY (DEC) MN 0. 0. 0.0 0.0 0.0 0.0 ο. Ο. 0. ΜX 0. 0.0 0.0 0.0 0.0 0. ٥. ٥. 0.0 0.0 0.0 0.0 Ο. 0. AV 0. 0. 0.0 0.0 0.0 0.0 YEARLY SUMMARY MN 0. 0. 0.0 0.0 0.0 0.0 MX 7281769. 1508870. 85.6 1950.0 9.1 11363.6 140410. 56.3 90465. 8802230272. 1987209344. 256304.4 200522.8 7160400.5 481119712. 332188736. AV 1004821. 226850. 29.3 22.9 817.4

REAL	DING, PA = HOUR	19603 LY-REPORT	4130.05 FT.	TE SOFTWARE DEVELOPMENT MONMOUTH - MYER CENTER	, NJ FTMOACO	- SIM MCA H	20 ONLY W/O	SCHD1 PAGE	1-
MODHH	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE					
	R	R	R	R					
	LOAD	BLECTRIC	FUEL	CAPACITY					
		USB	USB	RUNNING					
	BTU/HR		BTU/HR						
	(1)	(3)	(4)	(7)					
MONTHLY	SUMMARY (JAN)								
	15616.	1274	34400						
MX		103672.	24498.						
	941701824.			4712348.					
AV	1265728.	73621.	1793138.	4712345.					
	SUMMARY (FEB)								
	15616.	1374.	24498.	4712348.					
MX		103672.	5654817.	4712348.					
SM	757747008.			3166695680.					
AV	1127600.								
MONTHLY	SUMMARY (MAR)								
MN	15616.	1374.	24498.	4712348.					
MX	2520241.	103672.	3353212.	4712348.					
SM	496955712.	37184240.	747335360	3505984256					
AV	667951.	49979.	1004483.	4712345.					
MONTHLY	SUMMARY (APR)								
MN	15616.	1374.	24498	4712349					
MX	1867575.	103672.	2630422.	4712348.					
	149607136.								
AV			321118.						
MONTHLY	SUMMARY (MAY)								
				0.					
MX	316145	27821	0. 495961.	4712348.					
SM				1696444672.					
AV				2280168.					
MONTHLY	SUMMARY (JUN)								
MN		0.	0.	0.					
MX	0.								
SM									
ÄV		0. 0.	0.	0. 0.					
MANPEUR	SUMMARY (JUL)								
MONTHLY		_	_						
	• • • • • • • • • • • • • • • • • • • •	0.							
MX	0.	0.	0.						
SM			0.	• • •					
AV	0.	0.	0.	0.					

REA RP_2	DING, PA - HOU	19603 RLY-REPORT	4130.05 FT.	MONMOUTH - MYER CEN	TER, NJ FTMOACO - SIM MCA H20 O	NLY W/OA SCHD1 P
	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE		
	R	R	R	R		
	LOAD	ELECTRIC USE	FURL USE	CAPACITY RUNNING		
	BTU/HR	BTU/HR	BTU/HR	BTU/HR		
	(1)	(3)	(4)	(7)		
MONTHLY	SUMMARY (AUG)					
MIN	0.	0.	0.	0.		
MX	0.	0.	0.	0.		
SM	0.	0.	0.	٥.		
AV	0.	0.	0.	0.		
MONTHLY	SUMMARY (SEP)					
MIN	0.	0.	0.	0.		
MCX	0.	0.	0.	0.		
SM	0.	0.	0.	0.		
AV	0.	0.	0.	0.		
MONTHLY	SUMMARY (OCT)					
MN	0.	0.	0.	0.		
MX	835070.	73486.	1310036.	4712348.		
SM	28528948.	2510547.	44755484.	1809540992.		
AV	38345.	3374.	60155.	2432179.		
MONTHLY	SUMMARY (NOV)					
MN	15616.	1374.	24498.	4712348.		
MX	2366441.	103672.	3184438.	4712348.		
SM	333158336.	26324396.	507959936.	3392888064.		
AV	462720.	36562.	705500.	4712345.		
	SUMMARY (DEC)					
MIN	15616.	1374.	24498.	4712348.		
MX	3005253.	103672.	3879184.	4712348.		
SM	806623744.	51001972.	1165970432.	3505984256.		
AV	1084172.	68551.	1567165.	4712345.		•
	SUMMARY					
MN	0.	0.	0.	0.		
MX	4712348.	103672.	5654817.	4712348.		
SM	3532829952.	229011888.	5128488960.	23976409088.		
AV	403291.	26143.	585444.	2737033.		

READ REPORT- S	ING, PA	NEERING 19603 FUBLS AND U	4	130.05 PT	ITE SOFTWARE . MONMOUTH -				6/12/1996 10:22: . H20 ONLY W/OA SCHI	
ENERGY	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
			*****					(U-NAME)	(U-MAIL)	(U-NAPIS)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		

0.00 1000000.000 0.00 0.00

FUEL-OIL 138690.00 0.5900 5.000

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

•	BLECTRIC	FUEL-OIL	
MONTH	UNIT		
	3413.00	138690.00	
JAN			
ENERGY CONSUMPTION (UNIT/MO)	492409.		
PEAK DEMAND (UNIT/HR)	1462. 47932.06	37.	
TOTAL COST (\$)	47932.06	5675.37	
FEB	443335	7700	
BNERGY CONSUMPTION (UNIT/MO)	443235.		
PEAK DEMAND (UNIT/HR) TOTAL COST (\$)	1462. 44396.45		
MAR	44396.45	4543.95	
ENERGY CONSUMPTION (UNIT/MO)	507936	5389.	
PEAK DEMAND (UNIT/HR)	1460.		
TOTAL COST (\$)	49035.91		
APR	4,033.31	32/7.24	
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667.	
PRAK DEMAND (UNIT/HR)	1450.	19.	
TOTAL COST (\$)	46338.28		
MAY			
ENERGY CONSUMPTION (UNIT/MO)	569592.	209.	
PEAK DEMAND (UNIT/HR)	1922.	4.	
TOTAL COST (\$)	57425.30	123.51	
JUN			
ENERGY CONSUMPTION (UNIT/MO)	700162.	0.	
PEAK DEMAND (UNIT/HR)	1992.	0.	
TOTAL COST (\$)	72601.06	0.00	
JUL			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	1987.	0.	
TOTAL COST (\$)	72757.86	0.00	
AUG			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	1989. 753 52 .55	0. 0.00	
TOTAL COST (\$) SEP	/5352.55	0.00	
ENERGY CONSUMPTION (UNIT/MO)	661946	0.	
PEAK DEMAND (UNIT/HR)	1929.	0.	
TOTAL COST (\$)	68981.09	0.00	
OCT	0000000	0.00	
ENERGY CONSUMPTION (UNIT/MO)	540036.	323.	
PEAK DEMAND (UNIT/HR)	1831.	9.	
TOTAL COST (\$)	54517.98	190.39	
NOA			
ENERGY CONSUMPTION (UNIT/MO)	465371.	3663.	
PBAK DEMAND (UNIT/HR)	1459.	23.	
TOTAL COST (\$)	45967.96	2160.91	
DEC			
ENERGY CONSUMPTION (UNIT/MO)			
PEAK DEMAND (UNIT/HR)	1462.		
TOTAL COST (\$)	47852.72	4960.15	
TOTAL			
ENERGY CONSUMPTION (UNIT/YR)	6786406	36978.	
PEAK DEMAND (UNIT/HR)	1992.		
TOTAL COST (\$)	683159.25		

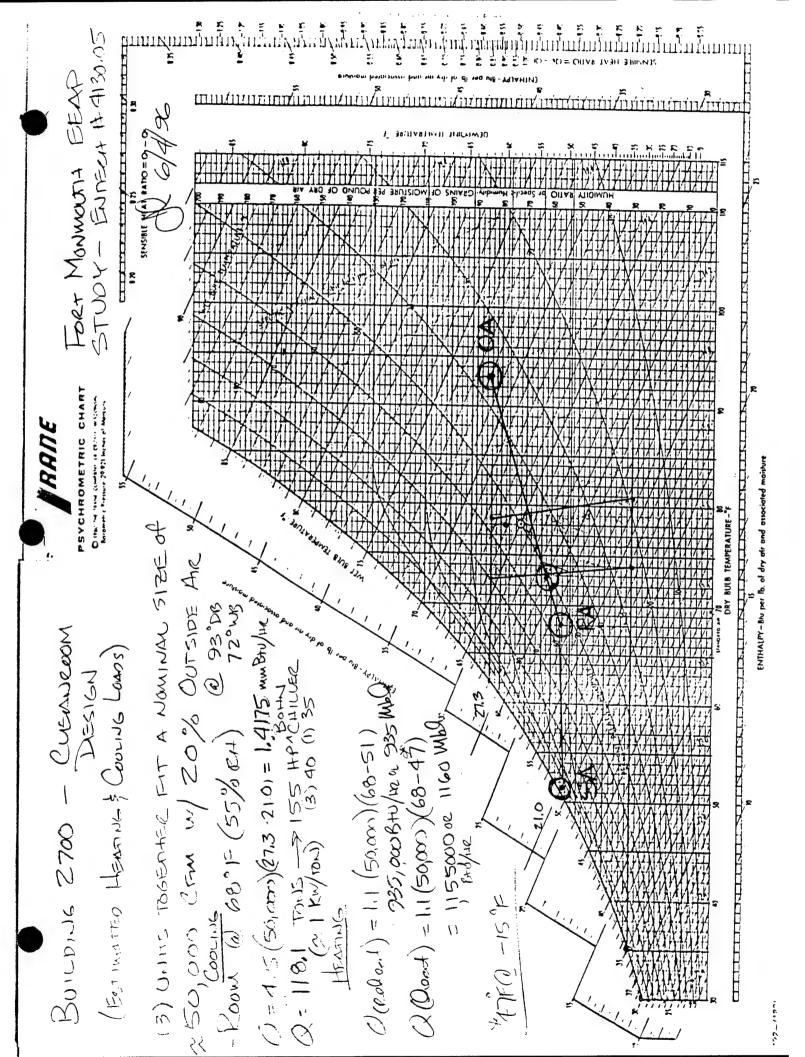
ENTECH ENGINEERING EZDOE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

ONTH	CHARGE - ASSIGNMENT	LENGTH	CONSUMPTION BY C-A	ENERGY CHARGE	MEASURED DEMAND	BILLING	CHARGE	TOTAL CHARGES
	(U-NAME)	(HR/MO)	(KWH)	(\$)	(KW)	(KW)	(\$)	(\$)

AN								
	4OFPKKWH	744	492409.	35404.21	1462.	1462.	0.00	
	EONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	47932.06
EB								1,,,,,,
	40FPKKWH	672	443235.	31868.59	1462.	1462.	0.00	
	EONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	
								44396.45
AR	40FPKKWH	744	507936.	36520.62	1460.	1460.	0.00	
	EONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	
								49035.91
PR		***	484.5.5	33000				
	40PPKKWH	720	471645.	33911.25	1450.	1450.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	46338.28
ΙΑΥ								40330.20
	40PPKKWH	744	569592.	40953.69	1922.	1922.	0.00	
	BONPKDMHTG	252	337720.	0.00	1922.	1922.	16471.62	
								57425.30
UN	40FPKKWH	456	286503.	20599.54	1091.	1091.	0.00	
	EONPKDMCL	264	413660.	0.00	1992.	1992.	18867.39	
	EONPKKWH	264	413660.	33134.14	1992.	1992.	0.00	
								72601.06
UL	~		******					
	4OPPKKWH	504 240	325586. 381209.	23409.62 0.00	1076. 1987.	1076. 1987.	0.00 18813.38	
	EONPKDMCL EONPKKWH	240	381209.	30534.86	1987.	1987.	0.00	
	DOMPKANI	240	301209.	30334.00	1307.	1507.	0.00	72757.86
.UG								
	4OFPKKWH	468	297774.	21409.93	1099.	1099.	0.00	
	BONPKDMCL	276	438300.	0.00	1989.	1989.	18834.75	
	BONPKKWH	276	438300.	35107.86	1989.	1989.	0.00	75352.55
SEP								
	40FPKKWH	468	280945.	20199.94	1069.	1069.	0.00	
	EONPKDMCL	252	380901.	0.00	1929.	1929.	18270.95	
	BONPKKWH	252	380901.	30510.20	1929.	1929.	0.00	C0001 00
CT								68981.09
	40PPKKWH	744	540036.	38828.57	1831.	1831.	0.00	
	BONPKDMHTG	240	310258.	0.00	1831.	1831.	15689.41	
1011								54517.98
10V	40FPKKWH	720	465371.	33460.16	1459.	1459.	0.00	
	EONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	
								45967.96

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

	• • • • • • • • • • • • • • • • • • • •							CONTINUED
MONTH	CHARGE - ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENBRGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	4OPPKKWH	744	491305.	35324.86	1462.	1462.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
								47852.72
TOTAL			6786406.	501178.03			181981.19	683159.25



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$-----$
                $ E Z - D O E L O A D S I N P U T $
                $-----$
                   $ GENERAL PROJECT DATA
TITLE LINE-1 *
                       ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
                  READING,
                                PA
                                         19603
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
      LINE-5 *FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24* ...
ABORT
                  ERRORS
DIAGNOSTIC
                  WARNINGS ..
LOADS-REPORT
                  SUMMARY=(LS-F) ..
BUILDING-LOCATION
                 ALTITUDE = 15.
                  X-REF = 0.0
                  Y-REF = 0.0 ..
RUN-PERIOD
                  JAN 1 1994 THRU DEC 31 1994 ...
                   $ SCHEDULES
D24FULON
          =DAY-SCHEDULE (1,24) (1.) ...
DWKFULON12 =DAY-SCHEDULE
                         (1,6) (0.)
                         (7,18) (1.)
                         (19,24) (0.) ...
D24FULOFF =DAY-SCHEDULE (1,24) (0.) ..
DOCCUP01 =DAY-SCHEDULE
                         (1,6) (0.07)
                         (7,8) (0.7,0.9)
                         (9,14) (1.)
                         (15,18) (0.9,0.7,0.25,0.15)
                         (19,24) (0.07) ...
d24occofhr =DAY-SCHEDULE
                        (1,24) (0.07) ...
DWKLITE1 = DAY-SCHEDULE
                         (1,6) (0.1)
                         (7,8) (0.5,0.9)
                         (9,14) (1.)
                         (15,18) (0.9,0.7,0.25,0.15)
                         (19,24) (0.1) ...
DNOTLITE1 =DAY-SCHEDULE
                        (1,24) (0.1) ...
DINFILWIN1 =DAY-SCHEDULE
                        (1,24) (0.8) ...
DINFILSUM1 = DAY-SCHEDULE
                         (1,24) (0.8) ...
DEQPAWKDAY = DAY-SCHEDULE
                         (1,7) (0.15)
                         (8,19) (0.5)
                         (20,24) (0.15) ...
```

DEQPAWKEND	=DAY-SCHEDULE	(1,24)	(0.15)				
W24FULON7D	=WEEK-SCHEDULE	(ALL)	D24FULON				
WOCC01	=WEEK-SCHEDULE		DOCCUP01 d24occofhr				
WLITE1	=WEEK-SCHEDULE		DWKLITE1 DNOTLITE1				
WINFILWIN1	=WEEK-SCHEDULE	(ALL)	DINFILWIN1				
WINFILSUM1	=WEEK-SCHEDULE	(ALL)	DINFILSUM1				
WEQUIPSCHA	=WEEK-SCHEDULE		DEQPAWKEND				
	LON 7D/WK WK1 =SCHEDULE THRU	DEC 31	W24FULON7D				
•	OCCUP SCH 01 =SCHEDULE THRU	DEC 31	WOCC01				
	ING SCH 1/.1 =SCHEDULE THRU	DEC 31	WLITE1				
\$ YR INFIL YINFIL1	=SCHEDULE THRU THRU	OCT 15	WINFILWIN1 WINFILSUM1 WINFILWIN1				
\$ YR SCH EQUIP SCHA 50/15 YEQUIPSCHA =SCHEDULE THRU DEC 31 WEQUIPSCHA							
\$ CONSTRUCTION TYPES							
\$ ROOF CON1 MAIN ROOF ROOFCON1 =CONSTRUCTION U-VALUE = 0.100							
•	R WAL1 TYP CONSTRUCTION I	U-VALUE	= 0.080				
	R WALL 1 TYP CONSTRUCTION (= 0.480 TANCE = 0.000				
	R DOOR TYP 01 US CONSTRUCTION V		= 0.400				
\$ UNDERGRI UWAL1 =0	CONSTRUCTION		= 0.100 TANCE = 0.500				

S SPACE DESCRIPTION

OSTMUH =SPACE AREA = 23230.0 VOLUME = 185840.0

TEMPERATURE = (68.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 1.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA INF-METHOD = AIR-CHANGE

AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 ...

E-W HEIGHT = 14.0 WIDTH = 105.0 CONS = EXWAL1 AZIMUTH = 90 ..

E-W HEIGHT = 14.0 WIDTH = 100.0 CONS = EXWAL1 AZIMUTH = 270 ..

U-W HEIGHT = 14.0 WIDTH = 344.0 CONS = UWAL1 ...

U-W HEIGHT = 232.3 WIDTH = 100.0 CONS = UWAL1 ...

1STMUH =SPACE AREA = 17842.0 VOLUME = 298854.0

TEMPERATURE = (68.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 1.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

FOULD-SCHEDULE - YEOULDSCHA INF-METHOD - ALB CHANCE

EQUIP-SCHEDULE = YEQUIPSCHA INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 22.3 WIDTH = 10.0 CONS = EXWAL1 AZIMUTH = 0 ...

E-W HEIGHT = 22.3 WIDTH = 167.0 CONS = EXWAL1 AZIMUTH = 270 ...

WINDOW HEIGHT = 2.7 WIDTH = 135.3 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1 AZIMUTH = 225 ...

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 30.0 CONS = EXWAL1 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 16.2 G-T = GLTYP1 ...

1STMDX =SPACE AREA = 15561.0 VOLUME = 550167.0 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 1.0 INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 364.0 CONS = EXWAL1 AZIMUTH = 315

WINDOW HEIGHT = 2.7 WIDTH = 295.0 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 20.0 CONS = EXWAL1 AZIMUTH = 135 ...

WINDOW HEIGHT = 2.7 WIDTH = 16.2 G-T = GLTYP1 ...

E-W HEIGHT = 37.6 WIDTH = 112.0 CONS = EXWAL1 AZIMUTH = 90 ..

E-W HEIGHT = 37.6 WIDTH = 90.0 CONS = EXWAL1 AZIMUTH = 135 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01 ...

E-W HEIGHT = 37.6 WIDTH = 112.0 CONS = EXWAL1 AZIMUTH = 270

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01 ...

ROOF HEIGHT = 110.0 WIDTH = 70.0 CONS = ROOFCON1 TILT = 0

2STMDX =SPACE AREA = 17634.0 VOLUME = 171932.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 15.0

3STMDX =SPACE AREA = 11911.0 VOLUME = 115179.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE ..

4STMDXCLNR =SPACE AREA = 6966.0 VOLUME = 67361.0 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

INF-METHOD = NONE

```
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
     PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
     LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
    LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
    EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 15.0
     INF-METHOD = NONE
      HEIGHT = 162.0 WIDTH = 43.0 CONS = ROOFCON1
      TILT = 0
                 . .
    AREA = 5117.0 VOLUME = 49481.4
     TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
     PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
     PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
    LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
     LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
     EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 5.0
     INF-METHOD = NONE
      HEIGHT = 119.0 WIDTH = 43.0 CONS = ROOFCON1
      TILT = 0
    AREA = 20043.0 VOLUME = 160344.0
     TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
     PEOPLE-SCHEDULE = YOCCO1 AREA/PERSON = 294.0
     PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
    LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SOFT = 2.0
    LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
    EOUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 2.0
    INF-METHOD = NONE
      HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWALL
      AZIMUTH = 225 ...
WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ...
WINDOW HEIGHT = 2.7 WIDTH = 162.0 G-T = GLTYP1 ...
      HEIGHT = 14.0 WIDTH = 132.0 CONS = EXWAL1
      AZIMUTH = 90 ..
      HEIGHT = 14.0 WIDTH = 96.0 CONS = EXWAL1
      AZIMUTH = 180
WINDOW HEIGHT = 2.7 WIDTH = 68.0 G-T = GLTYP1 ...
      HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
      AZIMUTH = 225
WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ...
WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ...
      HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
      AZIMUTH = 225 ..
```

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ...

ROOF

ROOF

E-W

E - W

E - W

E-W

=SPACE

4STMOFFCLB = SPACE

OLSTMDX

```
WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ...
             ROOF
                      HEIGHT = 200.0 WIDTH = 60.5 CONS = ROOFCON1
                      TILT = 0
             E-W
                      HEIGHT = 14.0 WIDTH = 84.0 CONS = EXWALL
                      AZIMUTH = 90 ..
               WINDOW HEIGHT = 2.7 WIDTH = 68.0 G-T = GLTYP1 ..
             E-W
                      HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
                      AZIMUTH = 45
               WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ...
               WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ...
             E-W
                      HEIGHT = 14.0 WIDTH = 200.0 CONS = EXWALL
                      AZIMUTH = 135
               WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ...
               WINDOW HEIGHT = 2.7 WIDTH = 162.0 G-T = GLTYP1 ..
                    HEIGHT = 14.0 WIDTH = 73.0 CONS = UWAL1 ...
            U-W
                    HEIGHT = 399.6 WIDTH = 100.0 CONS = UWAL1 ..
            U-W
                      HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
             E-W
                      AZIMUTH = 45
               WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
             E-W
                      HEIGHT = 14.0 WIDTH = 132.0 CONS = EXWAL1
                      AZIMUTH = 90
               WINDOW HEIGHT = 2.7 WIDTH = 106.9 G-T = GLTYP1 ...
             ROOF
                      HEIGHT = 399.6 WIDTH = 100.0 CONS = ROOFCON1
                      TILT = 0
            U-W
                     HEIGHT = 14.0 WIDTH = 73.0 CONS = UWAL1 ...
            U-W
                     HEIGHT = 399.6 WIDTH = 100.0 CONS = UWAL1 ...
COMPUTE LOADS ..
INPUT SYSTEMS ..
                $ E Z - D O E S Y S T E M S I N P U T $
$-----$
```

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*

END

LINE-3 * READING, PA 19603 LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ * LINE-5 *FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24* .. ABORT ERRORS DIAGNOSTIC WARNINGS .. SYSTEMS-REPORT VERIFICATION=(SV-A) SUMMARY=(SS-A, SS-B, SS-D) REPORT-FREQUENCY = MONTHLY ... S SCHEDULES DS24ON1 =DAY-SCHEDULE (1,24) (1.) .. DS24OFF0 =DAY-SCHEDULE (1,24) (0.) .. DLOTMPNOHT =DAY-SCHEDULE (1,24) (0.) .. DHITMPNOCL =DAY-SCHEDULE (1,24) (130.) .. DSHTSET1 =DAY-SCHEDULE (1,24) (72.) .. DSCLGSET1 =DAY-SCHEDULE (1,24) (75.) .. D4CLNRMT68 =DAY-SCHEDULE (1,24) (68.) .. OFFPK D =DAY-SCHEDULE (1,7) (1.)(8,19) (0.) (20,24) (1.) .. ONPK D =DAY-SCHEDULE (1,7) (0.)(8,19) (1.) (20,24) (0.) ... OFFPK END =DAY-SCHEDULE (1,24) (1.) ... =WEEK-SCHEDULE (ALL) DS24ON1 ..

W24FULON WHTSET1 =WEEK-SCHEDULE (ALL) DSHTSET1 ... WCLSET1 =WEEK-SCHEDULE (ALL) DSCLGSET1 ... WLOTMPNOHT =WEEK-SCHEDULE (ALL) DLOTMPNOHT WHITMPNOCL =WEEK-SCHEDULE (ALL) DHITMPNOCL W24FULOFF =WEEK-SCHEDULE (ALL) DS24OFF0 ... W4CLNRMT68 = WEEK-SCHEDULE (ALL) D4CLNRMT68 OFFPK W =WEEK-SCHEDULE (WD) OFFPK D (WEH) OFFPK END ONPK W =WEEK-SCHEDULE (WD) ONPK D (WEH) DS24OFF0 \$ YR SCHD FULON 24HRS 7D YSON247D =SCHEDULE THRU DEC 31 W24FULON \$ YR SCHD HEATING SEAS 1 YSHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON THRU OCT 15 W24FULOFF THRU DEC 31 W24FULON

\$ YR SCH COOL SEASON 1 YSCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOFF THRU OCT 15 W24FULON THRU DEC 31 W24FULOFF . \$ YRSCH HTSET1 72 /NON0

YHTSET1 =SCHEDULE THRU MAY 15 WHTSET1

THRU OCT 15 WHTSET1

THRU DEC 31 WHTSET1

\$ YRSCH COLSET 72/NON 130

YCLSET1 =SCHEDULE THRU MAY 15 WCLSET1

THRU OCT 15 WCLSET1

THRU DEC 31 WCLSET1

\$ YR SCHD 4THCLNRM T=68

Y4CLNRMT68 =SCHEDULE THRU DEC 31 W4CLNRMT68 ...

OFFPK_YR =SCHEDULE THRU DEC 31 OFFPK W ...

ONPK YR =SCHEDULE THRU DEC 31 ONPK W ..

\$ ZONE DESCRIPTION

OSTMUH = ZONE DESIGN-HEAT-T = 68.0 DESIGN-COOL-T = 90.0

HEAT-TEMP-SCH = Y4CLNRMT68 ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS

1STMUH =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 90.0

HEAT-TEMP-SCH = YHTSET1 ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ...

1STMDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS .

2STMDX = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS .

3STMDX = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS

4STMDXCLNR = ZONE DESIGN-HEAT-T = 68.0 DESIGN-COOL-T = 68.0

HEAT-TEMP-SCH = Y4CLNRMT68 COOL-TEMP-SCH = Y4CLNRMT68

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL ASSIGNED-CFM = 50000. OUTSIDE-AIR-CFM = 10000. SIZING-OPTION = FROM-LOADS

HEATING-CAPACITY = -1000000.0

4STMOFFCLB = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ...

OLSTMDX = ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC BASEBOARD-RATING = -240750. SIZING-OPTION = FROM-LOADS .

\$ SYSTEM DESCRIPTION

OSSTMUH =SYSTEM SYSTEM-TYPE = UHT

MAX-SUPPLY-T = 100.0 HEATING-SCHEDULE = Y4CLNRMT68

FAN-SCHEDULE = YSHTSEAS1 SUPPLY-DELTA-T = 0.18

SUPPLY-KW = 0.000059

NIGHT-CYCLE-CTRL = CYCLE-ON-ANY

ZONE-NAMES = (OSTMUH) ..

OSSTMDX =SYSTEM SYSTEM-TYPE = SZRH

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YSON247D

COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0

PREHEAT-T = 0.0 OA-CONTROL = FIXED

MIN-OUTSIDE-AIR = 0.2 MAX-OA-FRACTION = 0.2 FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4 SUPPLY WW = 0.00078 NIGHT CYCLE CTPL

SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0

PREHEAT-SOURCE = HOT-WATER

ZONE-NAMES = (OLSTMDX) ...

1SSTMUH =SYSTEM SYSTEM-TYPE = UHT

MAX-SUPPLY-T = 120.0 HEATING-SCHEDULE = YSON247D

FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 0.18

SUPPLY-KW = 0.000059

NIGHT-CYCLE-CTRL = CYCLE-ON-ANY

ZONE-NAMES = (1STMUH) ..

1SSTMDX =SYSTEM SYSTEM-TYPE = SZRH

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YSON247D

COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0

PREHEAT-T = 0.0 OA-CONTROL = FIXED

MIN-OUTSIDE-AIR = 0.15 MAX-OA-FRACTION = 0.15

FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF

NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0

PREHEAT-SOURCE = HOT-WATER

ZONE-NAMES = (1STMDX) ...

2SSTMDX =SYSTEM SYSTEM-TYPE = SZRH

MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YSON247D

COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0

PREHEAT-T = 0.0 OA-CONTROL = FIXED

MIN-OUTSIDE-AIR = 0.15 MAX-OA-FRACTION = 0.15

FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4

SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF

```
ZONE-NAMES = (2STMDX) ...
                     SYSTEM-TYPE = SZRH
3SSTMDX
         =SYSTEM
                     MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YSON247D
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
                     PREHEAT-T = 0.0 ECONO-LIMIT-T = 55.0
                     OA-CONTROL = FIXED MIN-OUTSIDE-AIR = 0.15
                     MAX-OA-FRACTION = 0.15 FAN-SCHEDULE = YSON247D
                     SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
                     ZONE-NAMES = (3STMDX)
4SSTMDXCLN =SYSTEM
                     SYSTEM-TYPE = RHFS
                     MAX-SUPPLY-T = 70.0 MIN-SUPPLY-T = 50.0
                     HEATING-SCHEDULE = YSON247D
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 50.0
                     PREHEAT-T = 0.0 MAX-HUMIDITY = 55.0
                     ECONO-LIMIT-T = 55.0 OA-CONTROL = FIXED
                     SUPPLY-CFM = 50000. MIN-OUTSIDE-AIR = 0.2
                     MAX-OA-FRACTION = 0.2 FAN-SCHEDULE = YSON247D
                     SUPPLY-DELTA-T = 3.1 SUPPLY-KW = 0.00101
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     REHEAT-DELTA-T = 16. SIZING-OPTION = COINCIDENT
                     RETURN-AIR-PATH = DIRECT
                     ZONE-NAMES = (4STMDXCLNR)
4SSTMDXOFC =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YSON247D
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
                     OA-CONTROL = FIXED MIN-OUTSIDE-AIR = 0.15
                     MAX-OA-FRACTION = 0.15 FAN-SCHEDULE = YSON247D
                     SUPPLY-DELTA-T = 2.42 SUPPLY-KW = 0.000783
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
                     ZONE-NAMES = (4STMOFFCLB)
                   $ HOURLY REPORT DESCRIPTION
S_1 = REPORT-BLOCK VARIABLE-TYPE = 0SSTMDX
                        VARIABLE-LIST = (33) ...
S 2 = REPORT-BLOCK VARIABLE-TYPE = 1SSTMDX
                        VARIABLE-LIST = (33) ...
S 3
         =REPORT-BLOCK VARIABLE-TYPE = 2SSTMDX
                        VARIABLE-LIST = (33) ...
S 4
         =REPORT-BLOCK VARIABLE-TYPE = 3SSTMDX
                        VARIABLE-LIST = (33) ...
```

=REPORT-BLOCK VARIABLE-TYPE = 4SSTMDXCLN

= HOURLY-REPORT REPORT-SCHEDULE = OFFPK YR

VARIABLE-LIST = (33) ...

REPORT-BLOCK = $(S_1, S_2, S_3, S_4, S_5)$

NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0

PREHEAT-SOURCE = HOT-WATER

END ..

S 5

SR 1

COMPUTE SYSTEMS

ABORT

DIAGNOSTIC PLANT-REPORT

D24FULON

ONPK PD

```
$EZ-DOE PLANTS INPUT$
                   $ GENERAL PROJECT DATA
TITLE LINE-1 *
                      ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
      LINE-3 * READING,
                                PΑ
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
      LINE-5 *FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24* ...
                  ERRORS
                         . .
                  WARNINGS ..
                  VERIFICATION= (PV-A)
                  SUMMARY=(PS-D, PS-H, BEPS)
                  REPORT-FREQUENCY = MONTHLY ...
                   $ SCHEDULES
         =DAY-SCHEDULE (1,24) (1.) ...
D24FULOF =DAY-SCHEDULE (1,24) (0.) ..
OFFPK PD =DAY-SCHEDULE (1,7) (1.)
                         (8,19) (0.)
                         (20,24) (1.) ...
         =DAY-SCHEDULE
                        (1,7) (0.)
                         (8,19) (1.)
                         (20,24) (0.) ...
OFFPK PEND =DAY-SCHEDULE (1,24) (1.) ..
W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..
W24FULOF7D =WEEK-SCHEDULE (ALL) D24FULOF ..
OFFPK PW =WEEK-SCHEDULE (WD) OFFPK PD
                          (WEH) OFFPK PEND ..
ONPK PW =WEEK-SCHEDULE (WD) ONPK PD
                          (WEH) D24FULOF ..
$ YRSCH FUL ON 24HR/7D
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ...
$ YRSCH HEATING SEAS1
YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
```

\$ YRSCH COOL SEAS1 YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D

THRU OCT 15 W24FULOF7D THRU DEC 31 W24FULON7D ...

THRU OCT 15 W24FULON7D THRU DEC 31 W24FULOF7D ... OFFPK PYR =SCHEDULE THRU DEC 31 OFFPK PW ... ONPK PYR =SCHEDULE THRU DEC 31 ONPK PW ... \$ EQUIPMENT DESCRIPTION PLSTMBLR =PLANT-EQUIPMENT TYPE = STM-BOILER SIZE = -999. ... PLHRCCH1 =PLANT-EQUIPMENT TYPE = HERM-REC-CHLR SIZE = -999. .. =PLANT-EQUIPMENT TYPE = DHW-HEATER PLDHW SIZE = -999. ... PLANT-PARAMETERS BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2 TWR-WTR-SET-POINT = 85. TWR-CELL-MAX-GPM = 1.0 TWR-FAN-OFF-CFM = 0.1 CHILLER-CONTROL = STANDBY HERM-REC-COND-TYPE = AIR HERM-REC-COND-PWR = 0.15 CHILL-WTR-T = 55. CCIRC-HEAD = 100.0CCIRC-DESIGN-T-DROP = 5.0 HCIRC-HEAD = 90.0 HCIRC-DESIGN-T-DROP = 25.0PART-LOAD-RATIO TYPE = HERM-REC-CHLR MIN-RATIO = 0.2500 MAX-RATIO = 1.0000 OPERATING-RATIO = 1.0000 ELEC-INPUT-RATIO = 0.1600 ... ENERGY-RESOURCE RESOURCE = FUEL-OIL .. ENERGY-RESOURCE RESOURCE = ELECTRICITY RESOURCE = NATURAL-GAS ... ENERGY-RESOURCE \$ HOURLY REPORT DESCRIPTION P 1 =REPORT-BLOCK VARIABLE-TYPE = HERM-REC-CHLR VARIABLE-LIST = (1,3,18) ...P_2 = REPORT-BLOCK VARIABLE-TYPE = STM-BOILER VARIABLE-LIST = (1,3) ... PR 1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK PYR

REPORT-BLOCK = (P 1, P 2)

END

STOP ..

COMPUTE PLANT ..

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU

WEATHER FILE- NEWARK, NJ

UNI	TS=MBTU)	WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTA
	HEATNG	-83.862	-188.593	0.000	-212.447	-217.365	-82.468	36.261	14.151	85. 7 50	36.517	0.000	-612.056
'AN	SEN CL	-6.310	-38.603	0.000	0.000	-0.119	-1.870	0.652	9.539	168.409	351.052	0.000	482.750
	LAT CL					0.000			7.780		0.000	0.000	7.780
	HEATNG	-68.621	-156.563	0.000	-216.734	-189.372	-70.823	42.070	12.426	74.585	32.072	0.000	-540.961
ΈB	SEN CL	-7.608	-32.893	0.000	0.000	-0.091	-2.275	0.972	9.050	155.865	318.863	0.000	441.884
	LAT CL					0.000			7.404		0.000	0.000	7.404
	HEATNG		-132.071		-239.948		-63.959	52.415	13.678	80.537	33.590	0.000	-487.820
AR	SEN CL	-9.702	-31.370	0.000	-2.315	-1.199	-3.488	3.867		191.225	370.952	0.000	529.798
	LAT CL					0.168			9.718		0.000	0.000	9.886
	HEATNG	-30.976	-72.496	0.000	-198.498	-80.367	-37.630	43.543	9.593	57.298	25.313	0.000	-284.222
PK	SEN CL LAT CL	-6.847	-12.841	0.000	-23.319	-0.521	-5.124	16.926	14.038	195.742	356.615	0.000	534.669
	DAT CL					2.284			11.522		0.000	0.000	13.807
	HEATNG	-16.076	-40.819		-126.276		-21.455	32.337	6.201	38.238	18.118	0.000	-149.77
AY	SEN CL LAT CL	-1.600	9.167	0.000	-50.460	12.393	-4.759	37.771	17.499	216.032	369.560	0.000	605.604
	LAI CL					12.124			14.406		0.000	0.000	26.530
	HEATNG	-3.416	-11.764	0.000	-54.526	-3.040	-6.449	13.978	1.972	14.254	8.914	0.000	-40.078
UN	SEN CL LAT CL	7.597	38.721	0.000	-65.841	28.412	-1.113	50.550	22.484	246.556	380.475	0.000	707.840
	Int Cu					40.982			18.373		0.000	0.000	59.355
	HEATNG	-1.117	-5.875	0.000	-22.761	-0.707	-3.078	7.168	0.844	6.770	5.469	0.000	-13.288
OL	SEN CL LAT CL	12.771	51.167	0.000	-56.196	39.412	1.431	59.045	22.069	240.206	375.222	0.000	745.127
	IMI CII					59.063			17. 74 9		0.000	0.000	76.812
	HEATNG	-2.995	-10.395	0.000	-14.262	-1.734	-4.828	6.946	0.778	6.588	5.698	0.000	-14.203
UG	SEN CL LAT CL	9.012	38.144	0.000	-35.886	29.028	-0.898	56.088	24.680	264.587	398.260	0.000	783.014
	- IAI CD					59.740			19.868		0.000	0.000	79.608
	HEATNG	-7.149	-20.852	0.000	-18.937	-9.052	-9.301	11.945	1.933	13.893	8.943	0.000	-28.577
EP	SEN CL	-1.788	6.271	0.000	-27.144	7.229	-7.512	45.710	21.644	238.465	372.306	0.000	655.179
	LAT CL			·		38.489			17.550		0.000 	0.000	56.038
	HEATNG	-24.907		0.000		-45.698	-27.409	26.462	5.612	37.082	19.063	0.000	-120.623
CT		-7.365	-18.425	0.000	-20.823		-9.031	25.884	17.247	209.216	360.954	0.000	551.844
	LAT CL				·	5.217			14.410		0.000	0.000	19.627
	HEATNG		-113.060							62.190			-292.463
VC		-8.103	-29.199	0.000	-7.730	-1.387	-3.895	5.051	12.646	181.670	344.124	0.000	493.178
	LAT CL -				·	5.465		· • • •	10.549		0.000		16.014
			-167.684	0.000	-164.480	-204.012	-74.067	31.808	13.554	81.773	34.898	0.000	-521.602
EC		-7.690	-37.184	0.000	-1.341		-2.440	1.479	10.246	173.744	354.021	0.000	490.210
	LAT CL					0.000			8.378		0.000	0.000	8.378

HEATNG -418.048 -980.901 0.000 -1422.580 -1074.266 -452.151 335.029 90.788 558.953 257.531 0.000 -3105.646

TOT SEN CL -27.633 -57.046 0.000 -291.060 106.717 -40.973 303.995 192.964 2481.692 4352.166 0.000 7020.822 LAT CL : 223.532 : 157.675 0.000 0.000 381.207

ENTECH ENGINEERING ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 SDL RUN 1
PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS 0SSTMUH WEATHER FILE- NEWARK, NJ ------SYSTEM ALTITUDE NAME MULTIPLIER 0SSTMUH 1.000 RETURN SUPPLY OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR EIR (F) (CFM) (CFM) (KW) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 13960. 0.000 0.2 0. 0.000 0.0 0.000 0.000 0.000 0.000 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION ZONE SUPPLY EXHAUST AIR CAPACITY SENSIBLE RATE CAPACITY RATE FAN FLOW

FLOW (KBTU/HR)

0.824 1.000 0. 0.00 0.00 0.00 -480.58 -482.35 1.0

(SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

NAME

0STMUH

FLOW

13960. 0.

FLOW

(KW)

RATIO

OLSTMDX

REPORT-	SV-A	SYSTEM I	DESIGN PARA	AMETERS		0	SSTMDX			WEATHER I	FILE- NEWAS	RK, NJ	
S	SYSTEM NAME		ALTITUDE JLTIPLIER										
0SSTMDX			1.000										
SUPF	PLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING	
F	PAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	
(CFM	1)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
2358	30.	18.392	2.4	0.	0.000	0.0	0.200	918.407	0.682	-3287.053	0.00	0.00	
						MINIMUM	OUTSIDE	COOLING	F	EXTRACTION	HEATING	ADDITION	
	ZONE		SUPPLY	EXHAUST	FAN	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
	NAME		FLOW	FLOW	(KW)	RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIE

23580. 0. 0.000 1.000 4716. 0.00 0.00 509.33 0.00 -1463.14 1.0

REPORT- SV-A	SYSTEM I	DESIGN PAR	AMETERS		1	SSTMUH				FILE- NEWAR		
SYSTEM NAME		ALTITUDE ULTIPLIER		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~								
1SSTMUH		1.000										
SUPPLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	
(CFM)			(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
13610.	0.000	0.2	0.	0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00	
					MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	3	SUPPLY	EXHAUST	FAN	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
NAME	3	FLOW	FLOW	(KW)	RATIO	FLOW	(KBTU/HR)	(SHR)				MULTIPLIER
1STMUH		13610.	0.	0.803	1.000	0.	0.00	0.00	0.00	-698.82	-705.41	1.0

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 SDL RUN 1
PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 ENTECH ENGINEERING REPORT- SV-A SYSTEM DESIGN PARAMETERS 1SSTMDX WEATHER FILE- NEWARK, NJ SYSTEM ALTITUDE NAME MULTIPLIER 1SSTMDX 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 10240. 7.987 2.4 0. 0.000 0.0 0.150 390.751 0.689 -1387.821 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION

FLOW (KBTU/HR)

10240. 0. 0.000 1.000 1536. 0.00 0.00 221.18 0.00 -530.84 1.0

AIR CAPACITY SENSIBLE RATE CAPACITY RATE

(SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

SUPPLY EXHAUST

FLOW

FLOW

FAN

(KW)

FLOW

RATIO

ZONE

NAME

1STMDX

H ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 ENTECH ENGINEERING REPORT- SV-A SYSTEM DESIGN PARAMETERS 2SSTMDX WEATHER FILE- NEWARK, NJ SYSTEM ALTITUDE NAME MULTIPLIER 2SSTMDX 1.000 RETURN SUPPLY OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR EIR (CFM) (KW) (F) (CFM) (KW) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) 29420. 22.948 2.4 0. 0.000 0.0 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION ZONE SUPPLY EXHAUST AIR CAPACITY SENSIBLE RATE CAPACITY RATE FAN FLOW

29420. 0. 0.000 1.000 4413. 0.00 0.00 635.47 0.00 -1525.13 1.0

FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) MULTIPLIER

NAME

2STMDX

FLOW

FLOW

(KW)

RATIO

FERGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM (UH&AHU W/DX) 4CLN REHT&HTON24 ENTECH ENGINEERING 3SSTMDX REPORT- SV-A SYSTEM DESIGN PARAMETERS WEATHER FILE- NEWARK, NJ -----SYSTEM ALTITUDE NAME MULTIPLIER 3SSTMDX 1.000 RETURN SUPPLY OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR EIR (CFM) (KW) (F) (CFM) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KW) 17170. 13.393 2.4 0. 0.000 0.0 0.150 652.451 0.690 -2327.040 0.00 0.00

MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION SUPPLY EXHAUST AIR CAPACITY SENSIBLE RATE CAPACITY RATE ZONE FAN FLOW NAME FLOW FLOW (KW) RATIO FLOW (KBTU/HR) (SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER 0.000 1.000 2576. 0.00 0.00 370.87 0.00 -890.09 1.0 3STMDX 17170. 0.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 SDL RUN 1
DING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 READING, REPORT- SV-A SYSTEM DESIGN PARAMETERS 4SSTMDXCLN WEATHER FILE- NEWARK, NJ SYSTEM ALTITUDE MULTIPLIER NAME 4SSTMDXCLN 1.000 SUPPLY RETURN OUTSIDE COOLING HEATING COOLING HEATING FAN ELEC DELTA-T FAN ELEC DELTA-T AIR CAPACITY SENSIBLE CAPACITY EIR EIR (KW) (F) (F) RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (CFM) (CFM) (KW) 50000. 50.500 3.1 0. 0.000 0.0 0.200 2625.423 0.592 0.000 0.00 0.00 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION

FLOW (KBTU/HR)

AIR CAPACITY SENSIBLE RATE CAPACITY RATE

10000. 0.00 0.00 972.00 -864.00 -108.00 1.0

(SHR) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULTIPLIER

ZONE

NAME

4STMDXCLNR

SUPPLY EXHAUST

50000. 0.

FLOW

FLOW

FAN

(KW)

0.000

FLOW

RATIO

1.000

ENTEC READING, REPORT- SV-A	PA	196	03 4	ZDOE - ELI	MONMOUTH				W UHA&HU W		EHT&HTON24	
SYSTEM NAME		ALTITUDE ULTIPLIER									**********	
4SSTMDXOFC		1.000										
SUPPLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
6640.	5.199	2.4	0.	0.000	0.0	0.150	252.823	0.690	-899.770	0.00	0.00	
					MINIMUM	OUTSIDE	COOLING	1	EXTRACTION	HEATING	ADDITION	
ZONE		SUPPLY	EXHAUST	FAN	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
NAME		FLOW	FLOW	(KW)	RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
4STMOFFCLB		6640.	0.	0.000	1.000	996.	0.00	0.00	143.42	0.00	-344.22	1.0

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

		C	0 0 L I	NG-				нЕ	АТІ	N G -		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIM	E DRY-	WET-	COOLING	HEATING	1	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MA	X BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY H	R TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	734.49866	25 1	4 52.F	41.F	1902.798	-1347.132	5	21	15.F	12.F	-2945.473	276815.	707.161
FEB	689. 9 5953	11 1	4 52.F	50.F	1947.922	-1197.829	20	3	10.F	7.F	-3142.490	250183.	706.495
MAR	880.38153	15 1	6 70.F	61.F	2406.023	-1145.207	5	1	29.F	24.F	-2291.763	286502.	706.461
APR	1036.69739	29 1	6 78.F	67.F	2896.074	-841.243	9	6	30.F	25.F	-2143.264	270995.	706.316
MAY	1283.01001	26 1	6 86.F	72.F	3639.623	-669.412	21	7	46.F	44.F	-1616.674	276518.	706.014
JUN	1616.68347	13 1	3 95.F	75.F	4159.959	-503.655	4	6	55.F	50.F	-1014.016	275700.	705.631
JUL	1785.26257	29 1	3 88.F	73.F	3977.014	-504.090	15	6	62.F	59.F	-850.181	271573.	705.631
AUG	1824.01367	18 1	6 91.F	77.F	4362.844	-504.945	22	5	58.F	57.F	-971.342	286190.	705.631
SEP	1478.22900	20 1	2 80.F	75.F	3879.487	-517.335	26	6	50.F	46.F	-1149.482	270833.	705.720
OCT	1161.73364	17 1	5 75.F	65.F	3083.900	-671.035	25	6	41.F	36.F	-1659.976	271631.	705.904
NOV	932.02478	2 1	5 77.F	70.F	3342.014	-899.365	23	6	31.F	26.F	-1985.155	266124.	706.300
DEC	791.00671	2 1	4 64.F	53.F	2238.509	-1227.427	8	4	19.F	17.F	-2322.254	276776.	706.508
TOTAL	14213.462					-10028.692						3279762.	
MAX					4362.844						-3142.490		707.161

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

0SSTMUH ______

WEATHER FILE- NEWARK, NJ

								- н Е	АТІ	N G	·	E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	7	CIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-112.613	5	20	15.F	12.F	-446.126	5924.	23.948
FEB	0.00000				0.000	-105.000	20	3	10.F	7.F	-395.889	5362.	23.643
MAR	0.00000				0.000	-101.294	5	1	29.F	24.F	-265.201	6284.	23.619
APR	0.00000				0.000	-60.669	9	4	32.F	27.F	-236.640	5776.	23.547
MAY	0.00000				0.000	-26.019	21	7	46.F	44.F	-190.399	5773.	23.471
JUN	0.00000				0.000	-0.083	1	5	63.F	55.F	-82.929	5861.	23.220
JUL	0.00000				0.000	0.000					0.000	5536.	23.220
AUG	0.00000				0.000	0.000					0.000	6107.	23.220
SEP	0.00000				0.000	0.000					0.000	5670.	23.220
OCT	0.00000				0.000	-11.518	25	6	41.F	36.F	-140.334	5556.	23.311
NOV	0.00000				0.000	-46.401	25	6	38.F	37.F	-206.371	5 561.	23.511
DEC	0.00000				0.000	-95.696	6	19	30.F	26.F	-255.627	5894.	23.618
TOTAL	0.000					-559.292						69300.	
MAX					0.000						-446.126		23.948

0.000

0.000

MAX

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSSTMUH WEATHER FILE- NEWARK, NJ

	ZONE CO	O L I N G	ZONE HI	EATING -	B A S E B O	ARDS	P R E - :	H E A T
		MUMIXAM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
72.07	0.0000	0.000	112 (122)	445 125				
JAN	0.00000	0.000	-112.61273	-446.126	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-104.99960	-395.889	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-101.29436	-265.201	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-60.66871	-236.640	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-26.01891	-190.399	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	-0.08293	-82.929	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-11.51841	-140.334	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-46.40113	-206.371	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-95.69556	-255.627	0.00000	0.000	0.00000	0.000
TOTAL	0.000		-559.292		0.000		0.000	

0.000 -446.126

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSSIMDX

WEATHER FILE- NEWARK, NJ

		c o	O L I	NG-				нЕ	аті	NG-		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	Т	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-424.663	19	5	14.F	12.F	-880.177	31571.	78.496
FEB	0.00000				0.000	-373.413	20	7	8.F	6.F	-957.488	28532.	78.496
MAR	0.10919	16 15	67.F	50.F	45.509	-330.252	25	6	28.F	25.F	-715.535	32565.	78.496
APR	4.85594	15 15	73.F	55.F	234.400	-195.398	9	7	30.F	25.F	-660.360	30889.	78.496
MAY	30.11234	10 15	87.F	69.F	451.981	-94.774	3	6	39.F	33.F	-471.012	31571.	78.496
JUN	92.83858	13 13	95.F	75.F	656.288	-17.941	4	6	55.F	50.F	-245.499	31386.	78.496
JUL	142.83754	12 13	87.F	71.F	624.137	-2.114	15	6	62.F	59.F	-98.983	31074.	78.496
AUG	153.36879	18 16	91.F	77.F	730.743	-5.612	22	5	58.F	57.F	-180.556	32565.	78.496
SEP	78. 258 56	6 14	79.F	69.F	516.576	-13.869	27	6	48.F	46.F	-259.040	30889.	78.496
OCT	16.51519	17 15	75.F	65.F	353.148	-80.379	11	6	40.F	35.F	-408.051	31074.	78.496
NOV	2.23800	2 15	77.F	7 0.F	262.428	-208.601	9	6	29.F	25.F	-584.202	30392.	78.496
DEC	0.07223	2 14	64.F	53.F	36.576	-353.525	8	6	19.F	17.F	-756.611	31571.	78.496
TOTAL	521.207					-2100.542						374066.	
MAX					730.743	•					-957.488		78.496

0.000

MAX

0.000

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSSTMDX WEATHER FILE- NEWARK, NJ

-	-Z O N E C O	O L I N G	-ZONE HE	A T I N G -	B A S E B (DARDS	P R E - 1	H E A T
		MAXIMUM		MAXIMUM		MUMIXAM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-178.04318	-240.750	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-159.78296	-240.750	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-165.73660	-240.750	0.0000	0.000
APR	0.00000	0.000	0.00000	0.000	-123.67260	-240.750	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-70.97748	-240.750	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	-14.39665	-196.853	0.00000	0.000
JOT .	0.00000	0.000	0.00000	0.000	-1.69665	-79.436	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	-4.50082	-144.519	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	-11.11564	-207.168	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	-63.09883	-240.750	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-134.81749	-240.750	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-172.49670	-240.750	0.00000	0.000
TOTAL	0.000		0.000		-1100.344		0.000	
143.14								

0.000

-240.750

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMUH WEATHER FILE- NEWARK, NJ _____

								нЕ	АТІ	N G		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	T	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF !	XAM	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-146.391	5	20	15.F	12.F	-703.103	4569.	18.638
FEB	0.00000				0.000	-126.787	20	3	10.F	7.F	-600.042	4125.	18.276
MAR	0.00000				0.000	-115.264	4	16	29.F	27.F	-406.593	4825.	18.267
APR	0.00000				0.000	-51.534	9	4	32.F	27.F	-340.749	4415.	18.193
MAY	0.00000				0.000	-22.072	2	22	50.F	39.F	-230.073	4424.	17.991
JUN	0.00000				0.000	0.000					0.000	4501.	17.835
JUL	0.00000				0.000	0.000					0.000	4252.	17.835
AUG	0.00000				0.000	0.000					0.000	4690.	17.835
SEP	0.00000				0.000	-3.802	25	23	57.F	49.F	-90.354	4360.	17.924
OCT	0.00000				0.000	-31.424	25	6	41.F	36.F	-270.992	4288.	18.017
NOV	0.00000				0.000	-73.560	25	6	38.F	37.F	-348.284	4295.	18.213
DEC	0.00000				0.000	-138.700	6	18	31.F	26.F	-416.965	4560.	18.314
TOTAL	0.000					~709.534						53305.	
MAX					0.000						-703.103		18.638

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMUH

WEATHER FILE- NEWARK, NJ

-	-Z O N E C O	0 L I N G	Z O N E H E	ATING-	B A S E B O) A R D S	P R E -	H E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MUMIXAM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	-146.39053	-703.103	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-126.78695	-600.042	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-115.26421	-406.593	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-51.53436	-340.749	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-22.07189	-230.073	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	-3.80157	-90.354	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-31.42404	-270.992	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-73.56000	-348.284	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-138.69984	-416.965	0.00000	0.000	0.00000	0.000
TOTAL	0.000		-709.534		0.000		0.000	
MAX		0.000		-703.103		0.000		0.000

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMDX

WEATHER FILE- NEWARK, NJ

					нЕ	A T I	N G		E L	E C			
					MUMIXAM						MUMIXAM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	T	ME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF I	XAN	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.07713	25 14	52.F	41.F	21.796	-77.661	19	5	14.F	12.F	-216.663	16722.	46.873
FEB	0.37390	11 14	52.F	50.F	41.414	-62.654	20	7	8.F	6.F	-235.768	15114.	46.873
MAR	3.60544	16 14	67.F	50.F	112.198	-42.990	25	6	28.F	25.F	-146.981	17363.	46.873
APR	16.78626	21 14	80.F	62.F	172.141	-14.779	9	7	30.F	25.F	-128.313	16399.	46.873
MAY	40.09307	10 15	87.F	69.F	239.649	-3.600	3	6	39.F	33.F	-75.075	16722.	46.873
JUN	76.69411	13 13		75.F	294.077	-0.001	5	4	59.F	55.F	-0.412	16720.	46.873
JUL	89.18549 84.33113	29 13 18 16		73.F	271.785 289.730	0.000	22	5	50 F	57.F	0.000	16401. 17363.	46.873
SEP	50.85186	20 14		72.F	231.730	-0.519	27	6					
SEF	30.83186	20 14	03.F	/2.F	231.730	-0.519	21	0	40.F	46.F	-48.776	16399.	46.873
OCT	17.04516	17 15	75.F	65.F	165.225	-8.702	11	6	40.F	35.F	-104.051	16401.	46.873
NOV	7.39196	2 14	77.F	70.F	197.869	-34.639	9	6	29.F	25.F	-143.213	16079.	46.873
DEC	0.68019	2 14	64.F	53.F	83.969	-64.555	8	6	19.F	17.F	-188.395	16722.	46.873
TOTAL	387.116					-310.126						198416.	
MAX					294.077						-235.768		46.873

MAX

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24

0.000

0.000

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMDX WEATHER FILE- NEWARK, NJ

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	ZONE CO	O L I N G	Z O N E H E	ATING-	B A S E B	0 A R D S	P R E -	H E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	

0.000

0.000

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SSTMDX WEATHER FILE- NEWARK, NJ

		- <i>-</i> - c o	o L I	N G -			H E	A T I	N G -		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	145.87360	25 14	52.F	41.F	578.169	-0.010	17 6	16.F	14.F	-9.415	87286.	225.654
FEB	138.91960	11 14	52.F	50.F	581.270	-1.135	20 7	8.F	6.F	-64.599	78894.	225.654
MAR	191.02383	15 16	70.F	61.F	661.116	0.000				0.000	90664.	225.654
APR	222.28549	29 15	77.F	66.F	748.915	0.000				0.000	85615.	225.654
MAY	265.31262	26 16	86.F	72.F	828.226	0.000				0.000	87286.	225.654
JUN	325.46805	13 13	95.F	75.F	878.494	0.000				0.000	87303.	225.654
JUL	339.99118	19 14	85.F	74.F	874.793	0.000				0.000	85598.	225.654
AUG	356.23941	18 16	91.F	77.F	918.542	0.000				0.000	90664.	225.654
SEP	297.17816	20 12	80.F	75.F	882.966	0.000				0.000	85615.	225.654
OCT	239.78165	17 14	74.F	65.F	728.905	0.000				0.000	85598.	225.654
NOV	195.11839	2 15	77.F	70.F	811.208	0.000				0.000	83926.	225.654
DEC	161.84395	2 14	64.F	53.F	638.487	0.000				0.000	87286.	225.654
TOTAL	2879.038					-1.145					1035801.	
MAX					918.542					-64.599		225.654

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 2SSTMDX

WEATHER FILE- NEWARK, NJ

	ZONE CO	OLING	-ZONE HE	ATING-	B A S E B C	ARDS	P R E -	H E A T
		MAXIMUM		MAXIMUM		MUMIXAM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL.	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000	3	0.000		0.000		0.000	
XAM		0.000		0.000		0.000		0.000

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SSTMDX WEATHER FILE- NEWARK, NJ

		C O	OLI	N G			н	EATI	N G -		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAX IMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	77.37622	25 14	52.F	41.F	334.590	-0.315	10 6	19.F	17.F	-20.724	48432.	132.453
FEB	74.61213	11 14	52. F	50.F	336.978	-1.440	20 7	8.F	6.F	-49.951	43777.	132.453
MAR	103.42725	16 14	67.F	50.F	379.178	0.000				0.000	50409.	132.453
APR	121.93380	29 1 5	77.F	66.F	434.784	0.000				0.000	47539.	132.453
MAY	146.75310	26 14	83.F	71.F	480.741	0.000				0.000	48432.	132.453
JUN	182.10710	13 13	95.F	75.F	510.773	0.000				0.000	48528.	132.453
JUL	190.13220	19 14		74.F	509.947	0.000				0.000	47444.	132.453
AUG	199.60895	18 16		77.F	524.492	0.000				0.000	50409.	132.453
SEP	165.38913	20 12	80.F	75.F	513.124	0.000				0.000	47539.	132.453
OCT	131.77885	17 14	74.F	65.F	423.871	0.000				0.000	47444.	132.453
NOV	106.03567	2 15	77.F	70.F	472.374	0.000				0.000	46551.	132.453
DEC	86.39047	2 14	64.F	53.F	370.396	0.000	26	27.F	26.F	-0.164	48432.	132.453
TOTAL	1585.548					-1.755					574954.	
MAX					524.492					-49.951		132.453

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 3SSTMDX WEATHER FILE- NEWARK, NJ

--ZONE COOLING---ZONE HEATING- --BASEBOARDS-----PRE-HEAT---

		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.0000	0.000	0.0000			
OAN	0.0000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.0000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1

·-----

-903.224

137.539

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR

READING.

MAX

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 4SSTMDXCLN

WEATHER FILE- NEWARK, NJ

---------- - - E L E C - - -MAXIMUM MAXIMUM ELEC-MAXIMUM COOLING TIME DRY- WET-COOLING HEATING TIME DRY- WET-HEATING TRICAL. ELEC ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY LOAD MONTH (MRTII) DY HR TEMP TEMP (KBTU/HR) (MBTU) DY HR TEMP TEMP (KBTU/HR) (KWH) (KW) JAN 500.26315 22 2 61.F 60.F 1106.007 -576.953 21.F 17.F -872.075 67026. 137.539 FEB 464.38861 13 19 55.F 54.F 950.652 -520.138 20 8.F 6.F -903.224 60563. 137.539 MAR 563.25409 15 16 70.F 61.F 1152.873 -552.842 5 28.F 24.F -834.289 68474. 137.539 APR 641.08441 29 18 73.F 68.F 1367.235 -518.495 10 7 38.F 33.F -827.410 65354. 137.539 MAY 758.34039 23 17 84.F 73.F 1540.904 -522.946 45.F 44.F -807.529 67026 137.539 JUN 879.61346 13 13 95.F 75.F 1624.603 -485.631 5 6 57.F 55.F -775.239 66078. 137.539 JUL 958.69739 19 16 88.F 74.F 1588.994 -501.976 5 6 62.F 57.F -761.236 137.539 66302 AUG 964.41534 18 16 91.F 77.F 1707.726 -499.306 22 5 58.F 57.F -775.107 68474. 137.539 SEP 835.92218 20 12 80.F 75.F 1630.641 -499.145 26 50.F 46.F 6 -800.906 65354 137.539 OCT 723.15112 31 17 65.F 65.F 1287.364 -538.966 11 6 40.F 35.F -824.686 66302. 137.539 NOV 600.18353 2 13 76.F 70.F 1444.065 -534.818 31.F 27.F -843.073 64630. 137.539 DEC 528.75989 2 16 65.F 52.F 1004.819 -569.150 6 19.F 17.F -862.770 67026. 137.539 ----------------TOTAL 8418.079 -6320.369 792596.

1707.726

0.000

MAX

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXCLN WEATHER FILE- NEWARK, NJ

	ZONE CO	OLING	ZONE HI	EATING -	B A S E B C	ARDS	PRE-I	H E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	-576.95331	-872.075	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-520.13782	-903.224	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-552.84204	-834.289	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-518.49457	-827.410	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-522.94629	-807.529	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	-485.63052	-775.239	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	-501.97604	-761.236	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	-499.30630	-775.107	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	-499.14542	-800.906	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-538.96558	-824.686	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-534.81830	-843.073	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-569.15021	-862.770	0.00000	0.000	0.00000	0.000
				*				
TOTAL	0.000		-6320.369		0.000		0.000	

0.000 -903.224 0.000

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXOFC

WEATHER FILE- NEWARK, NJ

		C (OOLI	N G -				н Е	ATI	NG		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TI	ME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF M	IAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	10.90832	25 14	52.F	41.F	89.179	-8.528	17	6	16.F	14.F	-48.975	15285.	43.561
•													
FEB	11.66591	11 14	52.F	50.F	95.229	-7.263	20	7	8.F	6.F	-63.643	13816.	43.561
MAR	18.96148	16 14	67.F	50.F	121.387	-2.564	27	5	33.F	28.F	-24.500	15919.	43.561
APR	29.75221	19 14	76.F	55.F	143.136	-0.368	10	6	36.F	31.F	-18.001	15006.	43.561
MAY	42.39846	26 14	83.F	71.F	174.839	0.000					0.000	15285.	43.561
JUN	59.96085	13 13		75.F	195.725	0.000					0.000	15323.	43.561
JUL	64.41993	29 13	88.F	73.F	188.440	0.000					0.000	14967.	43.561
AUG	66.04947	19 14	87.F	75.F	192.594	0.000					0.000	15919.	43.561
SEP	50.62909	20 12	80.F	75.F	179.669	0.000					0.000	15006.	43.561
OCT	33,46150	17 14	74.F	65.F	145.125	-0.047	11	6	40.F	35.F	-12.152	14967.	43.561
VOV	21.05668	2 14	77.F	70.F	163.038	-1.346	14	6	31.F	27.F	-26.696	14689.	43.561
DEC	13.26033	2 14	64.F	53.F	113.413	-5.802	27	6	21.F	19.F	-42.900	15285.	43.561
TOTAL	422.524					-25.917						181474.	
MAX					195.725						-63.643		43.561

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXOFC WEATHER FILE- NEWARK, NJ

		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

WEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
EQUIPMENT	SIZE INSTD					
	(MBTU/H) AVAIL					
STM-BOILER	3.174 1 1					
SIM-BOIDER	3.174 1 1					
DHW-HEATER	0.000 1 1					
HERM-REC-CHLR	4.552 1 1					

 ENTECH
 ENGINEERING
 EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 DOE-2.1D
 7/ 2/1996
 11:14:27
 PDL RUN 1

 READING,
 PA
 19603
 4130.05
 FT. MONMOUTH - MYER CENTER, NJ
 FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	10303.9	100.0
DHW-HEATER	0.0	0.0
	프로마코막드레무워크를루루	
LOAD SATISFIED	10303.9	100.0
TOTAL LOAD ON PLANT	10303.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
WEDW DEG GW D	*505*	
HERM-REC-CHLR	15871.3	100.0
	=======================================	
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	21934.1	100.0
LOAD SATISFIED	21934.1	100.0
TOTAL LOAD ON PLANT	21934.1	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24 REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEWARK, NJ

-----(CONTINUED)------

SUMMARY OF LOADS MET

	TOTAL	LOAD	TOTAL	PEAK	HOURS
TYPE OF LOAD	LOAD (MBTU)	SATISFIED (MBTU)	OVERLOAD (MBTU)	OVERLOAD (MBTU)	OVERLOADED
HEATING LOADS	10303.9	10303.9	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21934.1	21934.1	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24

REPORT- PS-H EQUIPMENT USE STATISTICS

WEATHER FILE- NEWARK, NJ

	AVG	MAX	MON					
EQUIPMENT	OPER	LOAD	DAY	SIZE OPER				
	RATIO	(MBTU)	HR	(MBTU) HRS				
STM-BOILER	0.371	3.174	2 20 3	3.174 8760				
DHW-HEATER	0.000	0.000	0 0 0	0.000 0				
HEDN DEC CUI D	0.398	4 553	0 10 16	4 552 0760				
HERM-REC-CHLR	0.398	4.552	8 18 16	4.552 8760				

REA SR_1		PA 196 HOURLY-REPOR	03 413	0.05 PT. MON		MENT INC DOB-2.1D 7/2/1996 11:14:27 SDL RUN 1 NTER, NJ PTMOBBO-STM(UH£AHU W/DX)4CLN REHT&HTON24 PAGE 1- 1
MODHH	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC	
	TOT FAN	TOT FAN	TOT FAN	TOT FAN	TOT FAN	$\mathcal{O} \subseteq \mathcal{O}$
	ELECTRIC	ELECTRIC	BLECTRIC	ELECTRIC	BLECTRIC	
	KW	KW	KW	KM	KW	
	(33)	(33)	(33)	(33)	(33)	9/5/NS
MONTHLY	SUMMARY (J	AN)				2/ 3 190
MN	18.392	7.987	22.948	13.393	50.500	\sim \sim \sim
MIX	18.392	7.987	22.948	13.393	50.500	() /= //
SM	9049.063	3929.703	11290.217	6589.162	24846.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHI V	SUMMARY (F	701				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948			
SM	8166.226	3546.317		13.393	50.500	
AV	18.392	7.987	10188.731 22.948	5946.316 13.393	22422.000 50.500	
~*	10.392	7.967	22.945	13.393	50.500	
	SUMMARY (M					
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8607.644	3738.010	10739.474	6267.740	23634.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (A	PR)				
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8607.644	3738.010	10739.475	6267.739	23634.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (M	AY)				
MIN	18.392	7.987	22.948	13.393	50.500	
MOX	18.392	7.987	22.948	13.393	50.500	
SM	9049.063	3929.703	11290.217	6589.161	24846.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (J	UN)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8386.935	3642.164	10464.104	6107.028	23028.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (J	UL)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	9269.771	4025.550	11565.588	6749.873	25452.000	
AV	18.392	7.987	22.948	13.393	50.500	

EZDOE - ELÎTE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 : 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHSAHU W/DX)4CLN REHTSHTON24 ENTECH ENGINEERING DING, PA 19603 DOB-2.1D 7/ 2/1996 11:14:27 SDL RUN 1 READING. HOURLY-REPORT PAGE 2- 1 1SSTMDX OSSTMDX 2SSTMDX 3.S.S.TMDX 4SSTMDXC TOT FAN TOT FAN TOT FAN TOT PAN TOT FAN ELECTRIC BLECTRIC BLECTRIC BLECTRIC ELECTRIC KW KW KW KW ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) MONTHLY SUMMARY (AUG) 18.392 18.392 7.987 MN 22.948 13.393 50 500 MX 7.987 22.948 13.393 50.500 3738.010 10739.474 6267.739 23634.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (SEP) 7.987 7.987 MN 18.392 22.948 13.393 50.500 18.392 ΜX 22.948 13.393 50.500 SM 8607.644 3738.010 10739.475 6267.740 23634.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (OCT) 18.392 7.987 MN 22.948 13.393 50.500 18.392 7.987 22.948 13.393 50.500 SM 9269.771 4025.550 11565.588 6749.873 25452.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (NOV) 18.392 7.987 MIN 22.948 13.393 50.500 MX 18.392 7.987 22.948 13.393 50.500 8828.353 3833.857 SM 11014.846 6428.450 24240.000 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (DEC) MN 18.392 7.987 22.948 7.987 3929.703 18.392 22.948 11290.217 13.393 6589.162 50.500 24846.000 MX 9049.062 AV 18.392 7.987 22.948 13.393 50.500 YEARLY SUMMARY 18.392 18.392 MN 7.987 22.948 13.393 50.500

50.500

50.500

MX

SM

ΑV

105498.813

18.392

7.987

7.987

45814.586 131627.406

22.948

22.948

13.393

13.393

76819.984 289668.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:14:27 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM (UH&AHU W/DX) 4CLN REHT&HTON24
REPORT- PV-A EQUIPMENT SIZES WEATHER PILE- NEWARK, NJ READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES

NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER SIZE INSTD STM-BOILER 3.174 1 1

0.000 1 1 DHW-HEATER HERM-REC-CHLR 4.552 1 1 ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11:14:27 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM (UHLAHU W/DX) 4CLN REHTEHTON24
REPORT- PS-D PLANT LOADS SATISFIED WRATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	10303.9	100.0
DHW-HEATER	0.0	0.0

LOAD SATISFIED TOTAL LOAD ON PLANT	10303.9 10303.9	100.0
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD

HERM-REC-CHLR	15871.3	100.0

LOAD SATISFIED TOTAL LOAD ON PLANT	15871.3 15871.3	100.0
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	21934.1	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	21934.1 21934.1	100.0

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED

HEATING LOADS	10303.9	10303.9	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
BLECTRICAL LOADS	21934.1	21934.1	0.000	0.000	0

ENTECH ENGINEBRING EZDOB - BLITE SOFTWARE DEVBLOPMENT INC DOB-2.1D 7/2/1996 11:14:27 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHEAHU W/DX)4CLN REHTEHTON24
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

	AVG	MAX	MON					
EQUIPMENT	OPER	LOAD	DAY	SIZE OPER				
	RATIO	(MBTU)	HE	(MBTU) HRS				
•••••								
STM-BOILER	0.371	3.174	2 20 3	3.174 8760				
DHW-HBATER	0.000	0.000	0 0 0	0.000 0				
HERM-REC-CHLR	0.398	4.552	8 18 16	4.552 8760				

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOB-2.1D 7/2/1996 11:14:27 PDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM (UHLAHU W/DX) 4CLIN REHTLEHTON24
REPORT- BEPS ESTIMATED BUILDING ENERGY PERPORMANCE WEATHER FILE- NEWARK, NJ BUILDING ENERGY PERPORMANCE WEATHER FILE- NEWARK, NJ

> ENERGY TYPE IN SITE METU - ELECTRICITY FUEL-OIL NATURAL-GAS CATEGORY OF USE SPACE HEAT 582.98 15721.18 0.00 SPACE COOL 8734.99 0.00 0.00 HVAC AUX 4965.52 0.00 0.00 DOM HOT WITE 0.00 0.00 0.00 AUX SOLAR 0.00 0.00 0.00 LIGHTS 3040.82 0.00 0.00 VERT TRANS 0.00 0.00 0.00 MISC ROUIP 4610.08 0.00 TOTAL 21934.39 15721.18 0.00

TOTAL SITE ENERGY TOTAL SOURCE ENERGY

81589.31 MBTU

37655.27 MBTU 318.3 KBTU/SQFT-YR GROSS-AREA 689.7 KETU/SOFT-YR GROSS-AREA

318.3 KBTU/SQFT-YR NET-AREA 689.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

REA PR_1	ENTECH ENGIN DING, PA HOU	19603 RLY-REPORT		TE SOPTWARE DEVI MONMOUTH - MYE		DOB-2.1D 7/2/1996 11:14:27 PDL PTMOBBO-STM(UHEAHU W/DX)4CLN REHTEHTON24 PAGE
MMODHH	HERM-REC	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL	
	-CHLR	-CHLR	-CHLR	BR	ER	
	LOAD	BLECTRIC	CONDENSR	LOAD	BLECTRIC	
		USB	FAN BLEC		USR	
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	
	(1)	(3)	(18)	(1)	(3)	
MONTHLY	SUMMARY (JAN)					
MN	691875.	553860.	415125.	1262853.	69826.	
MIX	1776538.	1006540.	682813.	2976898.	69826.	
SM	478364480.	377932192.	281947008.	974971008.	34354464.	
AV	972286.	768155.	573063.	1981648.	69826.	
MONTHLY	SUMMARY (FEB)					
MIN	632960.	506556.	379776.	1151333.	69826.	
MX	1413205.	953701.	682813.	3173915.	69826.	
SM	438156896.	346102944.	258160144.	892538304.	31002810.	
AV	986840.	779511.	581442.	2010221.	69826.	
MONTHLY	SUMMARY (MAR)					
MN	908338.	727898.	545003.	1053380.	69826.	
MX	1901428.	1024457.	682813.	2323188.	69826.	
SM	517894272.	404728928.	300986720.	826835776.	32678638.	
AV	1106612.	864805.	643134.	1766743.	69826.	
	SUMMARY (APR)					
MN	937265.	751183.	562359.	747265.	65759.	
MX	2109139.	1059606.	682813.	2174689.	69826.	
SM	629455552.		316353888.	635568704.	32663578.	
AV	1344991.	936305.	675970.	1358053.	69794.	
	SUMMARY (MAY)					
MN	1090128.	874349.	654077.	704509.	61997.	
MX	2899371.	1210732.	682813.	1648098.	69826.	
SM	789316544.		335833568.		33919784.	
AV	1604302.	986261.	682589.	1039823.	68943.	
	SUMMARY (JUN)	0.000	ganas-			
MN	1384177.	949434.	682813.	701395.	61723.	
MX	3163240.	1274939.	682813.	1045441.	69826.	
SM	927032768.	482290688.	311362752.	364100672.	30655348.	
AV	2032967.	1057655.	682813.	798466.	67227.	
	SUMMARY (JUL)	07750-	602017			
MN	1542191.	972581.	682813.		61913.	
MX	3262543.	1275740.	682813.	881605.	69826.	
SM AV	1128647808.		344137792.	381745984.	33474764.	
A۷	2239381.	1095152.	682813.	757433.	66418.	

	HERM-REC	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL	
	-CHLR	-CHLR	-CHLR	BR	BR	
	LOAD	BLECTRIC	CONDENSR	LOAD	BLECTRIC	
		USB	PAN BLEC		USB	
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	
	(1)	(3)	(18)	(1)	(3)	
MONTHLY	SUMMARY (AUG)					
MN	1432806.	956579.	682813.	655344.	57670.	
MX	3592429.	1322721.		1002767.	69826.	
SM	1034400000.	507029920.	319556512.	360379136.	31248418.	
AV	2210257.	1083397.	682813.	770041.	66770.	
	SUMMARY (SEP)					
WIN	1217109.	924744.	682813.	719861.	63348.	
MX	2931510.	1223276.	682813.	1180907.	69826.	
SM	904879552.			379770752.	31949278.	
AV	1933503.	1035288.	682813.	811476.	68268.	
	SUMMARY (OCT)					
MN	1043358.	836645.	626015.	745039.	65563.	
MX	2352478.	1139826.		1691400.	69826.	
SM	753210816.	486767168.			35091444.	
AV	1494466.	965808.	682150.	1035613.	69626.	
	SUMMARY (NOV)					
MN	892407.	715077.	535444.	731343.	64358.	
MX	2334289.	1100857.		2016580.	69826.	
SM	593284160.		319190752.		33483556.	
AV	1236009.	908112.	664981.	1423631.	69757.	
MONTHLY MN	SUMMARY (DEC) 739836.	502200	443902.	005450		
MX	1539367.	972169.	682813.		69826.	
SM	512530048.	400700064.			69826.	
AV	1041728.	814431.	605922.		34354464. 69826.	
VRART.V	SUMMARY					
MN		506556	379776	655344.	57670.	
MX	3592429.	1322721.	682813.			
SM		5401348096.	3749003264.			
AV	1517987.	941658.		1295571.	68842.	

REJ SR_1		PA 196 HOURLY-REPOR		0.05 PT. MON	MOUTH - MYER	CENTER, NJ PTMOBBO-STM(UHLAHU W/DX)4CLN REHTLHTON24 PAGE 1- 1
морнн	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC	
	TOT FAN	TOT PAN	TOT PAN	TOT FAN	TOT PAN	80° = 30 1
	BLECTRIC	ELECTRIC	BLECTRIC	ELECTRIC	ELECTRIC	
	KW	KM	KW	KW	KW	PP
	(33)	(33)	(33)	(33)	(33)	BB: French
MONTHLY	Y SUMMARY (J	(AN)				
MIN	18.392	7.987	22.948	13.393	50.500	
MIX	18.392	7.987	22.948	13.393	50.500	
SM	4634.884	2012.775	5782.794	3374.935	12726.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (F	'EB)				
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4193.466	1821.082	5232.052	3053.513	11514.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (M	(AR)				
MN	18.392	7.987	22.948	13.393	50.500	
MIX	18.392	7.987	22.948	13.393	50.500	
SM	5076.302	2204.468	6333.536	3696.357	13938.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (A	PR)				
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4634.884	2012.775	5782.794	3374.935	12726.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (M	IAY)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4634.884	2012.775	5782.794	3374.935	12726.000	
VA	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (J	TUN)				•
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4855.593	2108.621	6058.165	3535.646	13332.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	Y SUMMARY (J	TUL)				
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4414.175	1916.928	5507.423	3214.224	12120.000	
AV	18.392	7.987	22.948	13.393	50.500	

REA		GINBERING PA 196	03 413	OB - BLITE S 0.05 FT. MON	OFTWARE DEVELOPMI MOUTH - MYER CENT	ENT INC	DOB-2	:.1D 7/2 :(UH&AHU W/	/1996 (X)4CLN F	10: 7:40 SI	L RUN
<u>1</u>		HOURLY-REPOR	T								2 -
	OSSTMDX	1SSTMDX		3SSTMDX	4SSTMDXC LN						
	TOT FAN	TOT FAN	TOT FAN	TOT FAN	TOT FAN						
	ELECTRIC	ELECTRIC	BLECTRIC	ELECTRIC	ELECTRIC						
	KW	KW	KW	KW	KW						
	(33)	(33)	(33)	(33)	(33)						
ONTHLY	SUMMARY (A	UG)									
MIN	18.392	7.987	22.948	13.393	50.500						
MX	18.392	7.987		13.393	50.500						
SM	5076.302	2204.468	6333.536	3696.357	13938.000						
AV	18.392	7.987	22.948	13.393	50.500						
ONTHLY	SUMMARY (S	EP)									
MIN	18.392	7.987	22.948	13.393	50.500						
MX	18.392	7.987	22.948	13.393	50.500						
SM	4634.884	2012.775	5782.794	3374.935	12726.000						
AV	18.392	7.987	22.948	13.393	50.500						
ONTHLY	SUMMARY (O	CT)									
MN	18.392	7.987	22.948	13.393	50.500						
MX	18.392	7.987	22.948	13.393	50.500						
SM	4414.175		5507.423	3214.224	12120.000						
AV	18.392	7.987	22.948	13.393	50.500						
ONTHLY	SUMMARY (N										
MIN		7.987		13.393	50.500						
MX	18.392			13.393	50.500						
SM		1916.928		3214.224							
AV	18.392	7.987	22.948	13.393	50.500						
	SUMMARY (D										
MIN	18.392	7.987	22.948								
MX	18.392		22.948	13.393	50.500						
	4634.884		5782.794	3374.935							
AV	18.392	7.987	22.948	13.393	50.500						
	SUMMARY										
MN	18.392		22.948	13.393	50.500						
MX	18.392	7.987		13.393	50.500						
	55618.609		69393.523	40499.219							
AV	18.392	7.987	22.948	13.393	50.500						

ENTECH ENGINEERING BZDOE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10: 7:40 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHLAHU W/DX)4CLN REHTLHTON24
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

HERM-REC-CHLR 4.552 1 1

BQUIPMENT	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL
STM-BOILER	3.174 1 1					
DHW-HEATER	0.000 1 1					

ENTECH ENGINEBRING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:7:40 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PIMOBBO-STM(UM6AHU W/DX)4CLN REHTERTON24
REPORT- PS-D PLANT LOADS SATISPIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER DHW-HEATER	10303.9 0.0	100.0 0.0
LOAD SATISFIED TOTAL LOAD ON PLANT	10303.9 10303.9	100.0
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	15871.3	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	15871.3 15871.3	100.0
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	21934.1	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	21934.1 21934.1	100.0

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISPIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS COOLING LOADS ELECTRICAL LOADS	10303.9 15871.3 21934.1	10303.9 15871.3 21934.1	0.000 0.000 0.000	0.000 0.000 0.000	0 0

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 10: 7:40 PDL RUN 1
RRADING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
REPORT- PS-H EQUIPMENT USE STATISTICS MEATHER FILE- NEWARK, NJ

	AVG	MAX	MON					
EQUIPMENT	OPER RATIO	LOAD (MBTU)	DAY HR	SIZE OPER (MBTU) HRS				
STM-BOILER	0.371	3.174	2 20 3	3.174 8760				
DHW-HRATER	0.000	0.000	0 0 0	0.000 0				
HERM-REC-CHLR	0.398	4.552	8 18 16	4.552 8760				

ENTECH ENGINEERING EZDOB - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 10: 7:40 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM(UHAAHU W/DX)4CLN REHT&HTON24
REPORT- BEPS ESTIMATED BUILDING ENERGY PERPORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USB			
SPACE HEAT	582.98	15721.18	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4965.52	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
TOTAL	21934.39	15721.18	0.00

TOTAL SITE ENERGY 37655.27 MBTU 318.3 KBTU/SQFT-YR GROSS-AREA 318.3 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 81589.31 MBTU 689.7 KBTU/SQFT-YR GROSS-AREA 689.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

REAL PR_1	ENTECH ENGINE DING, PA - HOUR	19603 LY-REPORT		TE SOFTWARE DEVI MONMOUTH - MYEI		DOB-2.1D 7/2/1996 FTMOBBO-STM(UH&AHU W/DX)4CLN	
OMDDHH	HERM-REC	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL		
	-CHLR	-CHLR	-CHLR	ER	ER		
	LOAD	ELECTRIC	CONDENSR	LOAD	BLECTRIC		
		USB	FAN BLEC		USB		
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR		
	(1)	(3)	(18)	(1)	(3)		
MONTHLY	SUMMARY (JAN)						
MIN	1090060.	874295.	654036.	863170.	69826.		
MX	2092040.	1051559.	682813.		69826.		
SM				395541120.	17596188		
AV			682647.				
MONTHLY	SUMMARY (FEB)						
MN	1066818.	855555.	640091	927113	69826		
MX	2137164.	1057932.	640091. 682813.	927113. 2179558.	69826. 69826.		
	378973952.			326407872.			
AV		989687.					
MONTHLY	SUMMARY (MAR)						
MN			682813	606995	53416		
MX	2595265.	953220. 1132922. 279652096.	682813. 682813.	606995. 2029272.	69826		
SM	503283328.	279652096.	188456384	341751648.	19098404		
AV		1013232.					
MONTHLY	SUMMARY (APR)						
MN	1487801.	964636.	682813. 682813.	574664	50570		
MX	3085316	1226198	682813	1702598	50570. 69826.		
SM	543496640	268037312.	172068864	228300048.			
AV		1063640.					
MONTHLY	SUMMARY (MAY)						
MN	1663845	990265	682813	567689	49957		
MX	3828865	1365767	682813. 682813.	567689. 1323294.	69826		
SM	634489920	283589248.	172068864	181199008.	15047886		
AV		1125354.					
MONTHLY	SUMMARY (JUN)						
MIN		1047111.	682813	560475.	49322.		
MX	4349201.	1502434.	682813. 682813.	725163.	63814.		
SM				162180864.			
AV			682813.				
MONTHLY	SUMMARY (JUL)						
MN		1077488.	682813.	559788.	49261.		
MX	4166256.	1077488. 1432733.	682813. 682813.	665167.	49261. 58535.		
				145724320.			
AV		1263776.	682813.				

RRAI	ENTECH ENGINE DING, PA	ERING 19603	#ZDOR - RLI 4130.05 FT.	TE SOFTWARE DEVI MONMOUTH - MYBI	R CENTER, NJ	DOE-2.1D PTMOBBO-STM (UH&A	7/ 2/1996 HU W/DX)4CLN	10: 7:40 REHTARTO	0 PDL N24	, RUI
R_1	- HOUR	LY-REPORT							PAGE	2-
	HRRM-REC	HBRM-REC	HERM-REC	STM-BOIL	STM-BOIL					
	-CHLR	-CHLR	-CHLR	BR	BR					
	LOAD	BLECTRIC		LOAD	BLECTRIC					
		USB	FAN BLEC	20.0	USB					
	BTU/HR	BTU/HR		BTU/HR	BTU/HR					
	(1)	(3)	(18)	(1)	(3)					
MONTHLY	SUMMARY (AUG)									
MOX	2200348.	1066827.	682813.	558474.	49146.					
MX	4552086.	1491854.	682813.	686967.	60453.					
SM	930409472.	350816256.	188456384.	167946592.						
AV	3371049.	1271073.	682813.	608502.	53548.					
MONTHLY	SUMMARY (SEP)									
MON	1840372.	1015714.	682813.	551735.	48553.					
MX	4068729.	1368927.	682813.	899579.	69826.					
SM	709604608.	293925536.	172068864.	160190304.	14081494					
AV		1166371.								
MONTHLY	SUMMARY (OCT)									
MN	1639723.	986768.	682813.	595594.	52412.					
MX	3273143.	1241670.	682813.	1284848.	69826.					
SM	549318592.	259346032.	163875104.	1284848. 172466240.	14611193					
AV	2288828.									
MONTHLY	SUMMARY (NOV)									
MIN	1424527.	955364.	682813.	586544.	51616.					
MX				1668507.	69826.					
SM	474993984.	248784352.	163875104.	238648512.	16093686.					
AV		1036601.			67057.					
MONTHLY	SUMMARY (DEC)									
MN	1219585.	925111.	682813.		54956.					
MX		1098571.	682813.	1991260.	69826.					
SM	419273440.	249506352.	172068864.	352206816.	17513208.					
AV	1663784.	990105.		1397646.	69497.					
	SUMMARY									
MIN	1066818.			551735.	48553.					
MX		1502434.		2574966.	69826.					
SM		3333650688.	2064741632.	2872563456.	188114656.					
AV	2369077.	1102398.	682785.	949922.	62207.					

```
$-----$
                $EZ-DOE LOADS INPUT$
                   $ GENERAL PROJECT DATA
TITLE LINE-1 *
                       ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
      LINE-3 * READING, PA
                                          19603
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ
      LINE-5 *FTMOCA3 - DX COOL W/HW & PER HW - 1BTUH * ...
ABORT
                  ERRORS
DIAGNOSTIC
                  WARNINGS ..
LOADS-REPORT
                  VERIFICATION=(LV-A,LV-B)
                  SUMMARY = (LS-C, LS-D, LS-F) ...
BUILDING-LOCATION ALTITUDE = 15.
                  X-REF = 0.0
                  Y-REF = 0.0
RUN-PERIOD
                  JAN 1 1994 THRU DEC 31 1994 ...
                   $ SCHEDULES
          =DAY-SCHEDULE (1,24) (1.) ..
D24FULON
DWKFULON12 = DAY-SCHEDULE
                         (1,6) (0.)
                          (7,18) (1.)
                          (19,24) (0.) ...
D24FULOFF =DAY-SCHEDULE
                         (1,24) (0.) ...
DOCCUP01 = DAY-SCHEDULE
                         (1,6) (0.07)
                          (7,8) (0.7,0.9)
                          (9,14) (1.)
                          (15,18) (0.9,0.7,0.25,0.15)
                          (19,24) (0.07) ..
d24occofhr =DAY-SCHEDULE
                         (1,24) (0.07) ...
DWKLITE1
         =DAY-SCHEDULE
                         (1,6) (0.1)
                          (7,8) (0.5,0.9)
                          (9,14) (1.)
                          (15,18) (0.9,0.7,0.25,0.15)
                          (19,24) (0.1) ...
DNOTLITE1 =DAY-SCHEDULE
                         (1,24) (0.1) ...
DINFILWIN1 =DAY-SCHEDULE
                         (1,24) (0.8) ...
DINFILSUM1 = DAY-SCHEDULE
                         (1,24) (0.8) ...
DEQPAWKDAY = DAY-SCHEDULE
                         (1,7) (0.15)
                          (8,19) (0.5)
```

(20,24) (0.15) ...

DEQPAWKEND	=DAY-SCHED	ULE	(1,2	24)	(0.15)		
W24FULON7D	=WEEK-SCHE	DULE	(AI	ıL)	D24FUL	. NC	•
WOCC01	=WEEK-SCHE	DULE		O) EH)			
WLITE1	=WEEK-SCHE	DULE		O) EH)	DWKLIT		
WINFILWIN1	=WEEK-SCHE	DULE	(AI	L)	DINFIL	WIN1	
WINFILSUM1	=WEEK-SCHE	DULE	(AI	L)	DINFIL	SUM1	
WEQUIPA	=WEEK-SCHE	DULE		O) EH)			
\$ 24 HR FUI Y24FULON7D	LON 7D/WK W =SCHEDULE	K1 THRU	DEC	31	W24FUL	ON7D	
\$ Y LOADS (DEC	31	WOCC01		
\$ YR LIGHT: YLITE1	NG SCH 1/. =SCHEDULE		DEC	31	WLITE1		
\$ YR INFIL YINFIL1	=SCHEDULE	THRU	OCT	15	WINFILM WINFILM WINFILM	SUM1	
\$ YR SCHD I YEQUIPSCHA			DEC	31	WEQUIPA	Α	
	ş	CONS	TRUC	CTIC	ON TYPES	S	
\$ ROOF CON ROOFCON1 =0	N1 MAIN ROO CONSTRUCTIO	F N U	J-VAL	JUE	= 0.10	00 .	•
\$ EXTERIOR EXWAL1 =0	R WAL1 TYP CONSTRUCTIO		J-VAI	JUE	= 0.08	80 .	
\$ INTERIOR INTWAL1 =0	R WALL 1 TY CONSTRUCTIO	N U			= 0.48		0.
\$ EXTERIOR EXTDR01 =0	R DOOR TYP CONSTRUCTIO			UE	= 0.40	00.	
\$ UNDERGRN UWAL1 =(ND WALL 1 CONSTRUCTIO	N U			= 0.10		0

ABSORPTANCE = 0.500 ..

GLTYP1 =GLASS-TYPE SHADING-COEF = 0.560 PANES = 1 GLASS-CONDUCTANCE = 0.520 ...

\$ SPACE DESCRIPTION

AREA = 16950.0 VOLUME = 283065.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE

E-W HEIGHT = 22.3 WIDTH = 356.0 CONS = EXWAL1 AZIMUTH = 135 ...

WINDOW HEIGHT = 2.7 WIDTH = 288.4 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 266.0 CONS = EXWAL1 AZIMUTH = 315

WINDOW HEIGHT = 2.7 WIDTH = 215.5 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 71.0 CONS = EXWAL1 AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 57.5 G-T = GLTYP1 ...

AREA = 9601.0 VOLUME = 160336.7

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE

E-W HEIGHT = 22.3 WIDTH = 113.0 CONS = EXWAL1 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 91.5 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 25.0 CONS = EXWAL1 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 20.3 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 42.0 CONS = EXWAL1 AZIMUTH = 315 ...

WINDOW HEIGHT = 2.7 WIDTH = 34.0 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 10.0 CONS = EXWAL1

AZIMUTH = 315 ...

WINDOW HEIGHT = 2.7 WIDTH = 8.1 G-T = GLTYP1 ...

2LDX =SPACE AREA = 21192.0 VOLUME = 204927.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE ..

3LDX =SPACE AREA = 14457.0 VOLUME = 139800.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE ..

AREA = 35153.0 VOLUME = 339930.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0

INF-METHOD = NONE ..

ROOF HEIGHT = 817.5 WIDTH = 100.0 CONS = ROOFCON1 TILT = 0 ...

1LHWONLY =SPACE AREA = 25161.0 VOLUME = 421464.0

TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0

LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0

LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1

EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 0.7

INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0

INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 22.3 WIDTH = 192.0 CONS = EXWAL1 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 155.5 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 96.0 CONS = EXWAL1 AZIMUTH = 315 ...

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ...

E-W HEIGHT = 22.3 WIDTH = 155.0 CONS = EXWAL1 AZIMUTH = 270 ...

```
E-W
                      HEIGHT = 22.3 WIDTH = 103.0 CONS = EXWAL1
                      AZIMUTH = 225
                                     . .
               WINDOW HEIGHT = 2.7 WIDTH = 83.4 G-T = GLTYP1 ...
             E-W
                      HEIGHT = 22.3 WIDTH = 60.0 CONS = EXWAL1
                      AZIMUTH = 135 ...
               WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
             E - W
                      HEIGHT = 22.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 270
               WINDOW HEIGHT = 2.7 WIDTH = 20.0 G-T = GLTYP1 ..
                      HEIGHT = 22.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 225 ...
               WINDOW HEIGHT = 2.7 WIDTH = 20.0 G-T = GLTYP1 ...
03LHWELV =SPACE
                    AREA = 250.0 VOLUME = 4189.0
                    MULTIPLIER = 4.0 TEMPERATURE = (73.)
                    ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01
                    AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0
                    PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV
                    LIGHTING-W/SQFT = 2.0 LIGHT-TO-SPACE = 1.0
                    LIGHTING-SCHEDULE = YLITE1
                    EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SOFT = 0.7
                    INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
                    INF-SCHEDULE = YINFIL1
             E-W
                      HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 270
                                    . .
             E-W
                      HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 225
                                     . .
4LHWELV
                    AREA = 250.0 VOLUME = 2438.0
          =SPACE
                    TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
                    PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
                    PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
                    LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0
                    LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
                    EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SOFT = 0.7
                    INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
                    INF-SCHEDULE = YINFIL1
             E-W
                      HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 270
                                     . .
             E-W
                      HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
                      AZIMUTH = 225
                                     . .
             ROOF
                      HEIGHT = 25.0 WIDTH = 10.0 CONS = ROOFCON1
                      TILT = 0 ...
```

WINDOW HEIGHT = 2.7 WIDTH = 125.6 G-T = GLTYP1 ...

```
OLDXHT
          =SPACE
                    AREA = 1872.0 VOLUME = 18720.0
                    TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
                    PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
                    PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
                    LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
                    LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
                    EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 5.0
                    INF-METHOD = AIR-CHANGE INF-SCHEDULE = YINFIL1
             E - W
                      HEIGHT = 14.0 WIDTH = 48.0 CONS = EXWAL1
                      AZIMUTH = 90
               WINDOW HEIGHT = 2.7 WIDTH = 38.4 G-T = GLTYP1 ...
                    HEIGHT = 39.0 WIDTH = 96.0 CONS = UWAL1 ...
OLDXONLY
         =SPACE
                    AREA = 2847.0 VOLUME = 28470.0
                    TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
                    PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
                    PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
                    LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SOFT = 4.0
                    LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
                    EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SOFT = 5.0
                    INF-METHOD = NONE
                      HEIGHT = 14.0 WIDTH = 73.0 CONS = EXWAL1
             E-W
                      AZIMUTH = 315
               WINDOW HEIGHT = 2.7 WIDTH = 73.0 G-T = GLTYP1 ...
            U-W
                    HEIGHT = 39.0 WIDTH = 73.0 CONS = UWAL1 ...
END
COMPUTE LOADS ...
INPUT SYSTEMS ...
                SEZ-DOE SYSTEMS INPUT$
                   $ GENERAL PROJECT DATA
TITLE LINE-1 *
                      ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
      LINE-3 *
                  READING,
                               PA
                                        19603
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
      LINE-5 *FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH * ..
ABORT
                  ERRORS
DIAGNOSTIC
                  WARNINGS ..
SYSTEMS-REPORT
                  VERIFICATION=(SV-A)
                  SUMMARY = (SS-A, SS-B, SS-D, SS-F, SS-K)
```

REPORT-FREQUENCY = MONTHLY ...

\$ SCHEDULES

```
DS24ON1
           =DAY-SCHEDULE
                         (1,24) (1.) ...
DS240FF0
          =DAY-SCHEDULE
                         (1,24) (0.) ...
DLOTMPNOHT =DAY-SCHEDULE (1,24) (55.) ..
DHITMPNOCL =DAY-SCHEDULE (1,24) (90.) ..
         =DAY-SCHEDULE
DSHTSET1
                         (1,24) (72.) ..
DSCLGSET1 =DAY-SCHEDULE
                          (1,24) (75.) ...
DSHTSET270 =DAY-SCHEDULE
                         (1,24) (70.) ...
OFFPK SD =DAY-SCHEDULE
                          (1,7) (1.)
                          (8,19) (0.)
                          (20,24) (1.) ..
ONPK SD
                          (1,7) (0.)
           =DAY-SCHEDULE
                          (8,19) (1.)
                          (20,24) (0.) ...
OFFPK SEND =DAY-SCHEDULE
                          (1,24) (1.) ...
W24FULON
          =WEEK-SCHEDULE
                          (ALL) DS24ON1
WHTSET1 =WEEK-SCHEDULE (ALL) DSHTSET1
WCLSET1 =WEEK-SCHEDULE
                          (ALL) DSCLGSET1
WLOTMPNOHT =WEEK-SCHEDULE
                          (ALL) DLOTMPNOHT
WHITMPNOCL =WEEK-SCHEDULE
                          (ALL) DHITMPNOCL
W24FULOFF =WEEK-SCHEDULE
                          (ALL) DS24OFF0
WSHTSET270 =WEEK-SCHEDULE
                          (ALL) DSHTSET270
WSNOCOOL
         =WEEK-SCHEDULE
                          (ALL) DHITMPNOCL
                           (WD) OFFPK SD
OFFPK SW
           =WEEK-SCHEDULE
                           (WEH) OFFPK SEND
ONPK SW
           =WEEK-SCHEDULE
                           (WD)
                                 ONPK SD
                           (WEH) DS24OFF0
$ YR SCHD FULON 24HRS 7D
YSON247D
         =SCHEDULE THRU DEC 31 W24FULON
$ YR SCHD HEATING SEAS 1
YSHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON
                     THRU OCT 15 W24FULOFF
                     THRU DEC 31 W24FULON
$ YR SCH COOL SEASON 1
YSCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOFF
                     THRU OCT 15 W24FULON
                     THRU DEC 31 W24FULOFF
$ YRSCH HTSET1 72 /NON0
YHTSET1
       =SCHEDULE THRU MAY 15 WHTSET1
                     THRU OCT 15 WHTSET1
                     THRU DEC 31 WHTSET1
$ YRSCH COLSET 72/NON 130
```

=SCHEDULE THRU MAY 15 WCLSET1

YCLSET1

THRU OCT 15 WCLSET1 THRU DEC 31 WCLSET1

\$ YR SCHD 24H7D FUL OF YS247DOF =SCHEDULE THRU DEC 31 W24FULOFF ...

\$ YRSCH HTSET2-70 /NON0

YHTSET2-70 =SCHEDULE THRU MAY 15 WSHTSET270

THRU OCT 15 WHITMPNOCL

THRU DEC 31 WSHTSET270

\$ YRSYS SCH NO COOL SUM

YSHWNOCOOL =SCHEDULE THRU MAY 15 WSHTSET270

THRU OCT 15 WSNOCOOL THRU DEC 31 WSHTSET270

OFFPK SYR =SCHEDULE THRU DEC 31 OFFPK SW ...

ONPK SYR =SCHEDULE THRU DEC 31 ONPK SW ..

\$ ZONE DESCRIPTION

1LDXHT =ZONEDESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC BASEBOARD-RATING = -466500.

SIZING-OPTION = FROM-LOADS

DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 1LDXNOHT =ZONE

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

SIZING-OPTION = FROM-LOADS

2LDX DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0=ZONE

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

SIZING-OPTION = FROM-LOADS

3LDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

SIZING-OPTION = FROM-LOADS

4LDX = ZONEDESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

SIZING-OPTION = FROM-LOADS

1LHWONLY = ZONE DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0

HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOOL

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -514500. ASSIGNED-CFM = 1.
SIZING-OPTION = FROM-LOADS

03LHWELV =ZONE

DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0

HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOOL

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC

BASEBOARD-RATING = -60000. ASSIGNED-CFM = 1.

SIZING-OPTION = FROM-LOADS

4LHWELV = ZONE

DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0

HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOOL

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC

BASEBOARD-RATING = -60000. ASSIGNED-CFM = 1.

SIZING-OPTION = FROM-LOADS

0LDXHT =ZONE

DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC

BASEBOARD-RATING = -36000. SIZING-OPTION = FROM-LOADS

OLDXONLY =ZONE

DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0

HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1

ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL

SIZING-OPTION = FROM-LOADS

\$ SYSTEM DESCRIPTION

1SDXHT =SYSTEM

SYSTEM-TYPE = SZRH

MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YSHTSEAS1

COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0

PREHEAT-T = 0.0 OA-CONTROL = FIXED

MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4

SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF

NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0

HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER

RETURN-AIR-PATH = DUCT

ZONE-NAMES = (1LDXHT)

1SDX =SYSTEM

SYSTEM-TYPE = SZRH MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0

HEATING-SCHEDULE = YS247DOF

COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0

PREHEAT-T = 0.0 OA-CONTROL = FIXED

MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4

SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF

NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0

HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER

RETURN-AIR-PATH = DUCT

ZONE-NAMES = (1LDXNOHT) ..

```
2SDX
         =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YS247DOF
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
                     PREHEAT-T = 0.0 OA-CONTROL = FIXED
                     MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.42
                     SUPPLY-KW = 0.000783 NIGHT-CYCLE-CTRL = STAY-OFF
                     NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
                     HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
                     RETURN-AIR-PATH = DUCT
                     ZONE-NAMES = (2LDX)
3SDX
         =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YS247DOF
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
                     PREHEAT-T = 0.0 ECONO-LIMIT-T = 55.0
                     OA-CONTROL = FIXED MAX-OA-FRACTION = 0.0
                     SUPPLY-DELTA-T = 2.42 SUPPLY-KW = 0.000783
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     MIN-CFM-RATIO = 1.0 HEATING-CAPACITY = -1.
                     PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT
                     ZONE-NAMES = (3LDX)
4SDX
         =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YS247DOF
                     COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
                     PREHEAT-T = 0.0 OA-CONTROL = FIXED
                     MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.42
                     SUPPLY-KW = 0.000783 NIGHT-CYCLE-CTRL = STAY-OFF
                     NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
                     HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
                     RETURN-AIR-PATH = DUCT
                     ZONE-NAMES = (4LDX)
1SHWONLY =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YSHTSEAS1
                     COOLING-SCHEDULE = YS247DOF HEAT-SET-T = 55.0
                     PREHEAT-T = 0.0 OA-CONTROL = FIXED
                     MAX-OA-FRACTION = 0.0 FAN-SCHEDULE = YSHTSEAS1
                     SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     MIN-CFM-RATIO = 1.0 COOLING-CAPACITY = 1.
                     HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
                     RETURN-AIR-PATH = DUCT
                     ZONE-NAMES = (1LHWONLY) ..
04SHWELEV =SYSTEM
                     SYSTEM-TYPE = SZRH
                     MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
                     HEATING-SCHEDULE = YSHTSEAS1
                     COOLING-SCHEDULE = YS247DOF HEAT-SET-T = 55.0
                     PREHEAT-T = 0.0 OA-CONTROL = FIXED
                     MAX-OA-FRACTION = 0.0 FAN-SCHEDULE = YSHTSEAS1
                     SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
                     NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
                     MIN-CFM-RATIO = 1.0 COOLING-CAPACITY = 1.
                     HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
```

RETURN-AIR-PATH = DUCT

```
ZONE-NAMES = (03LHWELV, 4LHWELV) ..
```

0SDXHT =SYSTEM SYSTEM-TYPE = SZRHMAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YSHTSEAS1 COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0 PREHEAT-T = 0.0 OA-CONTROL = FIXEDMAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT ZONE-NAMES = (OLDXHT)OSDXNOHT =SYSTEM SYSTEM-TYPE = SZRHMAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0HEATING-SCHEDULE = YS247DOF COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0 PREHEAT-T = 0.0 OA-CONTROL = FIXEDMAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT ZONE-NAMES = (OLDXONLY)\$ HOURLY REPORT DESCRIPTION S₁ =REPORT-BLOCK VARIABLE-TYPE = 1SDXHT VARIABLE-LIST = (33) ... S · 2 =REPORT-BLOCK VARIABLE-TYPE = 1SDX VARIABLE-LIST = (33) ... S 3 =REPORT-BLOCK VARIABLE-TYPE = 2SDX VARIABLE-LIST = (33) ... S_4 = REPORT-BLOCK VARIABLE-TYPE = 3SDX VARIABLE-LIST = (33) ... S 5 =REPORT-BLOCK VARIABLE-TYPE = 4SDX VARIABLE-LIST = (33) ... S_6 =REPORT-BLOCK VARIABLE-TYPE = 1SHWONLY VARIABLE-LIST = (33) ... S 7 =REPORT-BLOCK VARIABLE-TYPE = 04SHWELEV VARIABLE-LIST = (33) ... S 8 =REPORT-BLOCK VARIABLE-TYPE = 0SDXHT VARIABLE-LIST = (33) ... S 9 =REPORT-BLOCK VARIABLE-TYPE = 0SDXNOHT VARIABLE-LIST = (33) ... = HOURLY-REPORT REPORT-SCHEDULE = OFFPK SYR RS 1 REPORT-BLOCK = $(S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9)$ END . . COMPUTE SYSTEMS INPUT PLANT ..

> \$-----\$ \$EZ-DOE PLANTS INPUT\$ \$-----\$

\$ GENERAL PROJECT DATA

```
TITLE LINE-1 *
                      ENTECH ENGINEERING
      LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
       LINE-3 * READING.
                                 PA
                                          19603
      LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
      LINE-5 *FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH * ..
ABORT
                  ERRORS
DIAGNOSTIC
                  WARNINGS ..
PLANT-REPORT
                  VERIFICATION= (PV-A)
                   SUMMARY=(PS-D, BEPS)
                  REPORT-FREQUENCY = MONTHLY ...
                    $ SCHEDULES
D24FULON
          =DAY-SCHEDULE (1,24) (1.) ..
D24FULOF
         =DAY-SCHEDULE (1,24) (0.) ..
OFFPK PD =DAY-SCHEDULE (1,7) (1.)
                          (8,19) (0.)
                          (20,24) (1.) ...
ONPK PD
                         (1,7) (0.)
          =DAY-SCHEDULE
                          (8,19) (1.)
                          (20,24) (0.) ..
OFFPK PEND =DAY-SCHEDULE (1,24) (1.) ..
W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON
W24FULOF7D =WEEK-SCHEDULE (ALL) D24FULOF
OFFPK PW
         =WEEK-SCHEDULE (WD) OFFPK PD
                          (WEH) OFFPK PEND ..
ONPK PW
         =WEEK-SCHEDULE (WD) ONPK PD
                          (WEH) D24FULOF ..
$ YRSCH FUL ON 24HR/7D
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ...
$ YRSCH HEATING SEAS1
YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
                    THRU OCT 15 W24FULOF7D
                    THRU DEC 31 W24FULON7D
$ YRSCH COOL SEAS1
YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D
                    THRU OCT 15 W24FULON7D
                    THRU DEC 31 W24FULOF7D
OFFPK_PYR =SCHEDULE THRU DEC 31 OFFPK_PW ...
ONPK_PYR =SCHEDULE THRU DEC 31 ONPK_PW ..
```

\$ EQUIPMENT DESCRIPTION

STMBLR1 =PLANT-EQUIPMENT TYPE = STM-BOILER

SIZE = -999. ...

HRCCH1 =PLANT-EQUIPMENT TYPE = HERM-REC-CHLR

SIZE = -999. ..

DHW1 = PLANT-EQUIPMENT TYPE = DHW-HEATER

SIZE = -999. ..

PLANT-PARAMETERS BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2

TWR-WTR-SET-POINT = 85. TWR-CELL-MAX-GPM = 1.0
TWR-FAN-OFF-CFM = 0.1 CHILLER-CONTROL = STANDBY
HERM-REC-COND-TYPE = AIR HERM-REC-COND-PWR = 0.15

CHILL-WTR-T = 55. CCIRC-HEAD = 100.0

CCIRC-DESIGN-T-DROP = 5.0 HCIRC-HEAD = 90.0

HCIRC-DESIGN-T-DROP = 25.0

PART-LOAD-RATIO TYPE = HERM-REC-CHLR

MIN-RATIO = 0.2500 MAX-RATIO = 1.0000

OPERATING-RATIO = 1.0000 ELEC-INPUT-RATIO = 0.1600

ENERGY-RESOURCE RESOURCE = FUEL-OIL ..

ENERGY-RESOURCE RESOURCE = ELECTRICITY ...

ENERGY-RESOURCE RESOURCE = NATURAL-GAS ...

\$ HOURLY REPORT DESCRIPTION

P 1 = REPORT-BLOCK VARIABLE-TYPE = HERM-REC-CHLR

VARIABLE-LIST = (3.18) ...

P 2 = REPORT-BLOCK VARIABLE-TYPE = STM-BOILER

VARIABLE-LIST = (3,4) ...

RP_1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK PYR

REPORT-BLOCK = (P 1, P 2)

END ..

COMPUTE PLANT ..

STOP ..

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 LDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- LV-A GENERAL PROJECT AND BUILDING INPUT WEATHER FILE- NEWARK. NJ

REPORT- LV-A GENERAL PROJECT AND BUILDING INPUT WEATHER FILE- NEWARK, NJ

PERIOD OF STUDY

STARTING DATE ENDING DATE NUMBER OF DAYS

1 JAN 1994 31 DEC 1994 365

SITE CHARACTERISTIC DATA

STATION NAME	LATITUDE (DEG)	LONGITUDE (DEG)	ALTITUDE (FT)	TIME ZONE	BUILDING AZIMUTH (DEG)
NEWARK, NJ	40.7	74.8	15.	5 EST	0.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- LV-B SUMMARY OF SPACES OCCURRING IN THE PROJECT

WEATHER FILE- NEWARK, NJ

NUMBER OF SPACES 10 EXTERIOR 8 INTERIOR 2

			1	LIGHTING		EQUIP				
	SPACE	SPACE		(WATT /		(WATT /	INFILTRATION	AIR CHANGES	AREA	VOLUME
SPACE	MULT	TYPE	AZIMUTH	SQFT)	PEOPLE	SQFT)	METHOD	PER HOUR	(SQFT)	(CUFT)
1LDXHT	1.0	EXT	0.0	4.00	57.7	10.00	NO-INFILT.	0.00	16950.00	283065.00
1LDXNOHT	1.0	EXT	0.0	4.00	32.7	10.00	NO-INFILT.	0.00	9601.00	160336.70
2LDX	1.0	INT	0.0	4.00	72.1	10.00	NO-INFILT.	0.00	21192.00	204927.00
3LDX	1.0	INT	0.0	4.00	49.2	10.00	NO-INFILT.	0.00	14457.00	139800.00
4 LDX	1.0	EXT	0.0	5.00	119.6	10.00	NO-INFILT.	0.00	35153.00	339930.00
1LHWONLY	1.0	EXT	0.0	2.00	85.6	0.70	AIR-CHANGE	1.00	25161.00	421464.00
03LHWELV	4.0	EXT	0.0	2.00	0.9	0.70	AIR-CHANGE	1.00	250.00	4189.00
4 LHWELV	1.0	EXT	0.0	2.00	0.9	0.70	AIR-CHANGE	1.00	250.00	2438.00
0 LDXHT	1.0	EXT	0.0	4.00	6.4	5.00	AIR-CHANGE	0.00	1872.00	18720.00
OLDXONLY	1.0	EXT	0.0	4.00	9.7	5.00	NO-INFILT.	0.00	2847.00	28470.00
BUILDING TOTALS					434.5				127733.00	1603339.75

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- LS-C BUILDING PEAK LOAD COMPONENTS

WEATHER FILE- NEWARK, NJ

*** BUILDING ***

FLOOR AREA 128483 SQFT 11936 SQMT VOLUME 1615907 CUFT 45762 CUMT

COOLING LOAD	HEATING LOAD
JUN 13 3PM	FEB 20 3AM
98F 37C	10F -12C
74F 23C	7F -14C
	JUN 13 3PM 98F 37C

	SENS	SIBLE	LAT	ENT	SENS	ENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)	
WALLS	81.385	23.836	0.000	0.000	-101.427	-29.705	
ROOFS	331.822	97.182	0.000	0.000	-492.283	-144.177	
GLASS CONDUCTION	29.286	8.577	0.000	0.000	-50.890	-14.905	
GLASS SOLAR	96.624	28.299	0.000	0.000	10.021	2.935	
DOOR	0.000	0.000	0.000	0.000	0.000	0.000	
INTERNAL SURFACES	0.000	0.000	0.000	0.000	0.000	0.000	
UNDERGROUND SURFACES	-10.842	-3.175	0.000	0.000	-20.172	-5.908	
OCCUPANTS TO SPACE	90.468	26.496	78.663	23.038	4.056	1.188	
LIGHT TO SPACE	1367.768	400.585	0.000	0.000	86.459	25.322	
EQUIPMENT TO SPACE	1587.170	464.842	0.000	0.000	203.194	59.510	
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000	
INFILTRATION	232.289	68.032	130.782	38.303	-912.613	-267.282	
TOTAL	3805.971	1114.674	209.445	61.341	-1273.655	-373.022	
TOTAL LOAD	4015.416 K	œти/н	1176.015	KW	-1273.655 KBTU/H	-373.022	KW
TOTAL LOAD / AREA	31.25BT	TU/H.SQFT	98.523	W /SQMT	9.913BTU/H.SQFT	31.251	W /SQMT

* NOTE 1) THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* --- LOADS
* 2) TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
* IN CONSIDERATION
*

READING

DEC

791.99347

TOTAL 11792.819

2 14 64.F 53.F

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 7/ 2/1996

11: 9:52 LDL RUN 1

PA REPORT- LS-D BUILDING MONTHLY LOADS SUMMARY

19603

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

.....

WEATHER FILE- NEWARK, NJ

- - - E L E C - - -MAXIMUM MAXIMUM ELEC-MAXIMUM COOLING TIME DRY- WET-COOLING HEATING TIME DRY- WET-HEATING TRICAL ELEC ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB ENERGY LOAD LOAD MONTH (MBTU) DY HR TEMP (KBTU/HR) TEMP (MBTU) DY HR TEMP TEMP (KBTU/HR) (KWH) (KW) JAN 764.87653 28 14 37.F 30.F 2763.208 -263.115 5 20 15.F 12.F -1183.963 325164. 1003.650 FEB 714.90106 37.F 30.F 8 14 2755.603 -223.215 20 3 10.F 7.F -1273.655 293965. 1003.650 MAR 897.07300 67.F 50.F 3146.924 -179.562 5 1 29.F 24.F -641 753 341826 1003.650 APR 954.42029 19 13 76.F 55.F 3476.269 -76.586 9 3 32.F 27.F -584.333 320318. 1003.650 MAY 1076.76624 10 13 87.F 68.F 3674.709 -36.413 2 21 50.F 39.F -366.646 325163. 1003.650 JUN 1216.21118 13 14 98.F 74.F 3805.970 -3.826 14 23 55.F 54.F -133.062 328649. 1003.650 JIII. 1221.03735 13 13 90.F 73.F 3743.262 -1.478 15 63.F 60.F 4 -72.973 316832. 1003.650 AUG 1268.32874 18 13 93.F 72.F 3802.003 -2.790 21 60.F 59.F -110.970 341826. 1003.650 SEP 1096.32874 7 13 82.F 64.F 3559.754 55.F 47.F -9.838 23 -163.770 320318. 1003.650 OCT 956.81537 14 13 75.F 61.F 3399.395 -46.571 25 41.F 36.F -449.884 316832. 1003.650 NOV 834.06848 2 14 77.F 70.F 3269.255 -115.507 25 6 38.F 37.F -625.698 311987. 1003.650

MAX 3805,970 -1273.655 1003.650

-234.832

-1193.733

7 25.F 24.F

-749.837

325163.

3868043.

1003.650

3031.096

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 I READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU

(UNI	TS=MBTU)	WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATNG SEN CL		-135.520 -123.797	0.000	-6.446 -6.908	-221.726	-23.601	7.231	6.149	73.470	88.103		-263.115
5121	LAT CL	47.120	-123.757	0.000	-0.508	0.000	-33.071	12.208	19.580 15.947	343.095	603.255 0. 0 00	0.000	764.876 15.947
	HEATNG	-42.955	-101.342	0.000	-6.847	-193.664	-20.514	8.985	5.202	59.837	68.081	0.000	-223.215
FEB	SEN CL	-40.029	-114.899	0.000	-6.703	-3.055	-28.634	14.300	18.122	317.869	557.930	0.000	714.901
	LAT CL					0.000			14.684		0.000	0.000	14.684
	HEATNG	-37.025	-56.959	0.000	-6.298	-181.005	-17.754	11.620	4.985	53.073	49.803	0.000	-179.562
MAR	SEN CL	-36.864	-129.589	0.000	-8.841	-7.427	-27.683	20.586	22.716	392.341	671.833	0.000	897.073
	LAT CL					0.215			18.422		0.000	0.000	18.636
100	HEATNG	-20.406	-11.900	0.000	-4.267	-85.849	-9.635	8.723	2.761	26.962	17.024	0.000	-76.586
APR	SEN CL LAT CL	-22.432	-85.502	0.000	-9.628	-11.741	-19.341	28.122	22.903	387.768	664.271	0.000	954.420
	IAI CD					2.501			18.447		0.000	0.000	20.948
	HEATNG	-11.177	-0.673	0.000	-1.390	-47.522	-5.224	6.550	1.637	15.218	6.170	0.000	-36.413
MAY	SEN CL	-10.322	-35.454	0.000	-9.824	-3.783	-12.756	37.890	24.101	401.528	685.384	0.000	1076.765
	LAT CL					12.891			19.453		0.000	0.000	32.344
	HEATNG	-2.526	-0.052	0.000	0.000	-6.224	-0.988	1.270	0.304	3.129	1.260	0.000	-3.826
JUN	SEN CL LAT CL	4.149	30.820	0.000	-7.816	9.116	-4.553	40.557	26.256	424.337	693.345	0.000	1216.210
	TAI CL					40.284			21.073		0.000	0.000	61.356
TTTT	HEATNG	-0.916	-0.026	0.000	0.000	-2.614	-0.282	0.364	0.123	1.315	0.557	0.000	-1.478
301	SEN CL LAT CL	10.311	51.721	0.000	-5.356	16.391 53.322	-1.342	42.541	24.762	403.475	678.534		1221.037
									19.795		0.000	0.000	73.117
	HEATNG	-2.013	-0.051	0.000	0.000	-4.074	-0.696	0.654	0.209	2.205	0.975	0.000	-2.790
AUG	SEN CL	5.603	31.722	0.000	-3.630	10.701	-3.647	38. 2 72	27.440	442.248	719.621	0.000	1268.329
	LAT CL					49.949			22.022		0.000	0.000	71.971
	HEATNG	-5.122	-0.107	0.000	0.000	-14.638	-2.014	2.111	0.716	6.753	2.462	0.000	-9.838
SEP	SEN CL	-6.770	-16.536	0.000	-3.366	-7.793	-9.711	31.133	24.889	406.859	677.623	0.000	1096.328
	LAT CL					31.379			20.004		0.000	0.000	51.383
0.000	HEATNG	-15.842		0.000		-54.698	-6.920	5.787			8.519	0.000	-46.571
ocr	SEN CL LAT CL	-20.801	-86.592	0.000	-4.874		-17.888	22.742	22.881	385.288	669.369		
						4.719			18.501		0.000	0.000	23.220
	HEATNG	-29.553	-39.732	0.000			-13.120		3.737		34.918		-115.507
NOV	SEN CL	-32.104	-122.639	0.000	-6.478	-6.046	-23.729	12.958	20.909	360.634	630.564	0.000	834.069
	LAT CL					5.363			16.901		0.000	0.000	22.265
			-100.413				-20.903				70.848		-234.832
DEC		-42.775	-133.418	0.000	-6.818	-2.372	-30.559	11.272	20.054	353.689	622.921	0.000	791.993
	LAT CL					0.000			16.188		0.000		16.188
			-450.528										-1193.713
TOT	SEN CL	-239.162	-734.162	0.000	-80.243	-21.678	-212.912	312.581	274.624	4619.205	7874.564	0.000	11792.817

WARNING*********************************	****
SYSTEM 1SDXHT HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ON
WARNING*********************************	****
SYSTEM 1SDX HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ION
WARNING*********************************	****
SYSTEM 1SDX MAY HAVE INADEQUATE HEATING CAPABILIT Y	•
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T	FOR CONSISTENCY)
WARNING*********************************	****
SYSTEM 2SDX HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ON
WARNING*********************************	****
SYSTEM 2SDX MAY HAVE INADEQUATE HEATING CAPABILIT Y	Z .
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T	FOR CONSISTENCY)
WARNING*********************************	***
SYSTEM 3SDX HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ON
WARNING*********************************	****
SYSTEM 3SDX MAY HAVE INADEQUATE HEATING CAPABILIT Y	t
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T	FOR CONSISTENCY)
WARNING*********************************	****
SYSTEM 4SDX HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ION
WARNING*********************************	****
SYSTEM 4SDX MAY HAVE INADEQUATE HEATING CAPABILIT Y	T .
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T	FOR CONSISTENCY)
WARNING*********************************	
SYSTEM 1SHWONLY HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ION
WARNING*********************************	****
SYSTEM 1SHWONLY MAY HAVE INADEQUATE COOLING CAPABILITY	
(CHECK COOLING-CAPACITY AND MIN-SUPPLY-T FOR CONSISTENCY)	
WARNING*********************************	****
SYSTEM 04SHWELEV HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ION
WARNING*********************************	****
SYSTEM 04SHWELEV MAY HAVE INADEQUATE COOLING CAPABILITY	
(CHECK COOLING-CAPACITY AND MIN-SUPPLY-T FOR CONSISTENCY)	
WARNING*********************************	****
SYSTEM OSDXHT HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ON
WARNING*********************************	****
SYSTEM OSDXHT MAY HAVE INADEQUATE HEATING CAPABILIT Y	?
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T	FOR CONSISTENCY)
WARNING*********************************	****
SYSTEM OSDXNOHT HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATI	ON

SYSTEM 0SDXNOHT MAY HAVE INADEQUATE HEATING CAPABILIT Y
(CHECK HEATING-CAPACITY, HEAT-SET-T, PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

		c o	OLI	NG-			- 	нЕ	АТІ	N G		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TI	ME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF M	IAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	1030.86877	28 14	37.F	30.F	2990.694	-195.082	5	20	15.F	12.F	-584.666	417931.	1128.341
FEB	958.76001	11 14	52.F	50.F	3034.267	-167.990	20	3	10.F	7.F	-581.473	3777 55.	1128.341
MAR	1184.26794	16 14	67.F	50.F	3266.959	-140.064	5	1	29.F	24.F	-531.706	434594,	1128.341
APR	1225.55615	15 15	73.F	55.F	3496.059	-48.435	9	4	32.F	27.F	-457.452	410094.	1128.341
MAY	1334.88306	10 13	85.F	68.F	3597.508	-6.228	4	2	40.F	35.F	-227.738	417930.	1128.341
JUN	1431.97034	13 14	96.F	73.F	3710.452	0.000					0.000	418423.	1128.337
JUL	1435.57861	12 13	87.F	71.F	3730.172	0.000					0.000	409597.	1128.337
AUG	1489.34998	12 14	87.F	69.F	3730.011	0.000					0.000	434592.	1128.337
SEP	1342.88159	16 14		63.F	3545.524	0.000					0.000	410092.	1128.337
oct	1240.27942	14 14		61.F	3435.643	-12.581	25	6	41.F	36.F	-322.264	409598.	1128.341
NOV	1113.56702	2 14		70.F	3359.911	-85.671	25	6	38.F	37.F	-476.418	401762.	1128.341
DEC	1071.41553	2 14	64.F	53.F	3183.396	-183.532	24	13	33.F	29.F	-542.650	417931.	1128.341
TOTAL	14859.358					-839.583						4960114.	
MAX					3730.172						-584.666		1128.341

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDI
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SDXHT

		(COOLI	N G -			H E	АТІ	N G -		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIN	ME DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MA	AX BULE	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY F	HR TEME	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	175. 7 667 4	28 1	14 37.E	30.F	508.361	0.000				0.000	6 559 5.	172.688
FEB	164.49419	23 1	14 39.F	32.F	512.493	0.000				0.000	59288.	172.688
MAR	202.85103	16 1		50.F	561.898	0.000				0.000	68130.	172.688
APR MAY	210.12144	10 1		62.F	581.345 609.368	0.000				0.000	64338. 65595.	172.688
	220.15000			00.1	003.300	0.000				0.000	03333.	172.000
JUN	242.29442	30 1	14 91.E	74.F	610.740	0.000				0.000	65605.	172.688
JUL	243.20132	13 1	14 90.I	73.F	609.506	0.000				0.000	64328.	172.688
AUG	251.53531	18		72.F	612.498	0.000				0.000	68130.	172.688
SEP	227.46468	7 1		65.F	594.641	0.000				0.000	64338.	172.688
NOV	211.08777 188.37050	2 1		7 61.F	576.856 553.353	0.000				0.000	64328. 63070.	172.688
DEC	181.37585		14 64.1		542.733	0.000				0.000	65595.	172.688
TOTAL	2526.995					0.000					778322.	
MAX					612.498					0.000		172.688

MAX

0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 STREADING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

0.000

0.000

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR

1SDXHT

WEATHER FILE- NEWARK, NJ

	ZONE CO	OLING	-ZONE HE	ATING-	B A S E B C) A R D S	P R E - H	I E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000	0.000	0.0000	0.000

0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY

1SDXHT

MONTH	A V ALL HOURS	E R A G E COOLING HOURS (F)	S P A HEATING HOURS	FAN ON HOURS	FAN OFF HOURS (F)	AVERAGE THE BETWEEN OUTDOOR& ROOM AIR ALL HOURS	EMPERATURE I BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	DIFFERENCE BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	SUMMED TEMB BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	74.81	74.81		74.81	0.00	-43.45	-43.45	0.00		1346.87	0.00000
FEB	74.84	74.84		74.84	0.00	-41.62	-41.62	0.00		1165.24	-0.00003
MAR	74.94	74.94		74.94	0.00	-34.43	-34.43	0.00		1067.33	-0.00002
APR	75.00	75.00		75.00	0.00	-22.10	-22.10	0.00		664.92	0.00012
MAY	75.04	75.04		75.04	0.00	-12.76	-12.76	0.00		444.66	0.00067
JUN	75.13	75.13		75.13	0.00	-2.92	-2.92	0.00		215.17	0.00253
JUL	75.10	75.10		75.10	0.00	0.37	0.37	0.00		169.44	0.00318
AUG	75.14	75.14		75.14	0.00	-1.65	-1.65	0.00		194.02	0.00370
SEP	75.07	75.07		75.07	0.00	-8.08	-8.08	0.00		262.41	0.00236
OCT	74.96	74.96		74.96	0.00	-17.87	-17.87	0.00		558.35	0.00061
NOV	74.89	74.89		74.89	0.00	-28.67	-28.67	0.00		860.40	0.00030
DEC	74.83	74.83		74.83	0.00	-39.29	-39.29	0.00		1217.88	-0.00003
ANNUAL	74.98	74.98	0.00	74.98	0.00	-20.93	-20.93	0.00	0.00	8166.68	0.00112

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

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REPORT- SS-F ZONE DEMAND SUMMARY IN 1SDXHT FOR 1LDXHT

DEC

130.46097

0.000

0.00000

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WEATHER FILE- NEWARK, NJ

	D E M A N D	S	B A S E B O A	A R D S	T E M P E R .	ATURES	L O A D S	NOT MET
	НЕАТ	HEAT		MAXIMUM	MAXIMUM	MINIMUM		
	EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
JAN	124.84687	0.000	0.00000	0.000	75.7	74.3	0	0
FEB	118.50689	0.000	0.00000	0.000	75.7	74.2	0	0
MAR	151.90965	0.000	0.00000	0.000	75.9	74.4	0	0
APR	160.57507	0.000	0.00000	0.000	76.0	74.4	0	0
MAY	176.47926	0.000	0.00000	0.000	76.0	74.5	0	0
JUN	190.88374	0.000	0.00000	0.000	76.0	74.6	0	0
JUL	190.27350	0.000	0.00000	0.000	76.0	74.6	0	0
AUG	198.23311	0.000	0.00000	0.000	76.2	74.5	0	0
SEP	176.78696	0.000	0.00000	0.000	76.0	74.5	0	0
OCT	159.41942	0.000	0.00000	0.000	75.9	74.4	0	0
NOV	138.75520	0.000	0.00000	0.000	75.9	74.4	0	0

0.000

75.8

74.3

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SDX

		c o	o r i	N G -			H E	АТІ	N G -		E L	E C
					MAXIMUM					MUMIXAM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
jan	109.87893	25 14	52.F	41.F	284.854	0.000				0.000	36296.	96.661
FEB	100.79175	11 14	52.F	50.F	287.939	0.000				0.000	32807.	96.661
MAR	120.17087	15 15	65.F	58.F	298.072	0.000				0.000	37732.	96.661
APR	118.69505	22 14	68.F	60.F	304.955	0.000				0.000	35611.	96.661
MAY	125.52036	10 14	87.F	68.F	312.632	0.000				0.000	36296.	96.661
JUN	129.99603	29 14	87.F	69.F	313.938	0.000				0.000	36329.	96.661
ur	128.70070	12 14	88.F	72.F	312.708	0.000				0.000	35578.	96.661
AUG	134.39304	9 14	88.F	71.F	313.318	0.000				0.000	37732.	96.661
SEP	123.55710	15 14	80.F	69.F	310.071	0.000				0.000	35611.	96.661
OCT	118.33138	21 14	68.F	60.F	303.654	0.000				0.000	35578.	96.661
NOV	111.27756	2 14	77.F	70.F	306.192	0.000				0.000	34893.	96.661
DEC	111.83203	2 14	64.F	53.F	293.754	0.000				0.000	36296.	96.661
TOTAL	1433.146					0.000					430762.	
MAX					313.938					0.000		96.661

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SDX WEATHER FILE- NEWARK, NJ

	-ZONE CO	O L I N G	-ZONE HE	ATING-	B A S E B C	ARDS	P R E - H	E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.0000			
AFK	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
•	0.00000	0.000	0.0000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.0000	
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.0000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	

0.000

0.000

0.000

MAX

0.000

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY

1SDX

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M	10NTH	A V ALL HOURS	E R A G E COOLING HOURS (F)	S P A (HEATING HOURS (F)	FAN ON HOURS	FAN OFF HOURS (F)	AVERAGE TO BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	EMPERATURE : BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	DIFFERENCE BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	SUMMED TEMB BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
J	IAN	74.99	74.99		74.99	0.00	-43.63	-43.63	0.00		1352.55	-0.00001
F	EB	75.00	75.00		75.00	0.00	-41.78	-41.78	0.00		1169.97	-0.00003
M	IAR	75.08	75.08		75.08	0.00	-34.58	-34.58	0.00		1071.96	-0.00003
A	.PR	75.10	75.10		75.10	0.00	-22.20	-22.20	0.00		668.04	0.00011
M	IAY	75.12	75.12		75.12	0.00	-12.84	-12.84	0.00		446.93	0.00066
J	IUN	75.19	75.19		75.19	0.00	-2.98	-2.98	0.00		216.33	0.00251
J	UL	75.14	75. 14		75.14	0.00	0.33	0.33	0.00		170.21	0.00317
A	vog	75.19	75.19		75.19	0.00	-1.70	-1.70	0.00		194.95	0.00368
S	EP	75.13	75.13		75.13	0.00	-8.14	-8.14	0.00		264.22	0.00235
C	CT	75.06	75.06		75.06	0.00	-17.97	-17.97	0.00		561.32	0.00060
N	IOV	75.03	75.03		75.03	0.00	-28.81	-28.81	0.00		864.56	0.00029
D	EC	75.01	75.01		75.01	0.00	-39.46	-39.46	0.00		1223.30	-0.00003
A	NNUAL	75.09	75.09	0.00	75.09	0.00	-21.04	-21.04	0.00	0.00	8204.31	0.00111

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1

READING, PA

DEC

85.90159

0.000

0.00000

19603

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-F ZONE DEMAND SUMMARY IN 1SDX FOR 1LDXNOHT WEATHER FILE- NEWARK, NJ ------

	-	D E M A N	D S	B A S E B O	A R D S	T E M P E R	ATURES	L O A D S	N O T M E T
		HEAT	НЕАТ		MAXIMUM	MAXIMUM	MINIMUM		
		EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
		ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
	MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
	JAN	83.94625	0.000	0.00000	0.000	75.9	74.5	0	0
	FEB	77.37153	0.000	0.00000	0.000	75.9	74.5	0	0
	MAR	94.22594	0.000	0.00000	0.000	. 76.0	74.5	0	0
	APR	93.45490	0.000	0.00000	0.000	76.0	74.5	0	0
	MAY	99.00498	0.000	0.00000	0.000	76.1	74.6	0	0
)	JUN	103.68858	0.000	0.00000	0.000	76.2	74.6	0	0
	JUL	101.63277	0.000	0.00000	0.000	76.2	74.6	0	0
	AUG	107.10589	0.000	0.00000	0.000	76.2	74.6	0	O
	SEP	97.66648	0.000	0.00000	0.000	76.1	74.6	0	0
	OCT	91.98180	0.000	0.00000	0.000	76.0	74.5	0	0
	NOV	8 5.99 596	0.000	0.00000	0.000	76.0	74.5	0	0

0.000

75.9

74.5

0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SDX

		C	0 0 L I	N G -			H E	A T I	N G		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIM	E DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MA	K BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY H	R TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	274.32330	20 1	1 35.F	35.F	648.640	0.000				0.000	79332.	212.306
										0.000	7,552.	212.300
FEB	248.51154	9 1	1 38.F	33.F	653.556	0.000				0.000	71706.	212.306
MAR	286.07492	15 1	65.F	58.F	656.496	0.000				0.000	82501.	212.306
APR	270.78506	29 1	1 64.F	60.F	658.082	0.000				0.000	77847.	212.306
MAY	275.68390	18 1	67.F	59.F	661.414	0.000				0.000	79332.	212.306
JUN	278.04584	29 1	87.F	69.F	660.947	0.000				0.000	79431.	212.306
JUL	272.46158	26 1	80.F	64.F	662.274	0.000				0.000	77748.	212.306
AUG	288.48929	2 1	78.F	63.F	660.852	0.000				0.000	82501.	212.306
SEP	271.60422	14 1	73.F	62.F	663.940	0.000				0.000	77847.	212.306
OCT	270.24704	21 1	68.F	60.F	662.417	0.000				0.000	77748.	212.306
NOV	264.62100	1 1	71.F	68.F	660.767	0.000				0.000	76262.	212.306
DEC	275.57596	1 1	49.F	43.F	650.005	0.000				0.000	79332.	212.306
TOTAL	3276.426					0.000					941521.	
MAX					663.940					0.000		212.306

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 2SDX WEATHER FILE- NEWARK, NJ

		MUMIXAM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
VON	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY

2SDX

	ΑV	ERAGE	SPAG	CE T	Ем Р	AVERAGE TI	EMPERATURE 1	DIFFERENCE			
						BETWEEN OUTDOOR& ROOM AIR	HUMIDITY RATIO DIFFERENCE BETWEEN				
	ALL	COOLING	HEATING	FAN ON	FAN OFF	ALL	FAN ON	FAN OFF	HEATING	ALL	OUTDOOR AND
MONTH	HOURS (F)	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	ROOM AIR
MONTH	()	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(FRAC.OR MULT.)
JAN	75 17	75.48									
JAN	75.17	75.17		75.17	0.00	-43.81	-43.81	0.00		1358.22	-0.00001
FEB	75.18	75.18		75.18	0.00	-41.96	-41.96	0.00		1174.75	-0.00003
MAR	75.23	75.23		75.23	0.00	-34.73	-34.73	0.00		1076.49	-0.00003
APR	75.20	75.20		75.20	0.00	-22.30	-22.30	0.00		670.89	0.00011
MAY	75. 17	75.17		75.17	0.00	-12.89	-12.89	0.00		448.60	0.00066
JUN	75.22	75.22		75.22	0.00	-3.01	-3.01	0.00		217.23	0.00251
JUL	75.15	75.15		75.15	0.00	0.32	0.32	0.00		170.89	0.00318
AUG	75.22	75.22		75.22	0.00	-1.73	-1.73	0.00		195.61	0.00369
SEP	75.19	75.19		75.19	0.00	-8.20	-8.20	0.00		265.65	0.00235
OCT	75.14	75.14		75.14	0.00	-18.06	-18.06	0.00		564.10	0.00060
VON	75.17	75. 17		75.17	0.00	-28.94	-28.94	0.00		868.58	0.00029
DEC	75.18	75.18		75.18	0.00	-39.63	-39.63	0.00		1228.59	-0.00004
ANNUAL	75.19	75.19	0.00	75.19	0.00	-21.14	-21.14	0.00	0.00	8239.62	0.00111

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- SS-F ZONE DEMAND SUMMARY IN 2SDX FOR 2LDX WEATHER FILE- NEWARK, NJ

TOR ZEEK TORE ZEEK WEATHER FILE- NEWARK, NJ

----DEMANDS------BASEBOARDS-----TEMPERATURES-----LOADS NOT MET--

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	219.48587	0.000	0.00000	0.000	76.3	74.7	0	0
FEB	198.98672	0.000	0.00000	0.000	76.4	74.7	0	0
MAR	231.21049	0.000	0.00000	0.000	76.5	74.7	0	0
APR	217.41350	0.000	0.00000	0.000	76.4	74.7	0	0
MAY	219.58954	0.000	0.00000	0.000	76.3	74.7	0	0
JUN	222.31543	0.000	0.00000	0.000	76.3	74.7	0	o
JUL	215.12756	0.000	0.00000	0.000	76.3	74.7	o	o
AUG	230.66203	0.000	0.00000	0.000	76.3	74.7	0	0
SEP	216.78177	0.000	0.00000	0.000	76.4	74.7	o	0
OCT	214.50052	0.000	0.00000	0.000	76.3	74.7	0	0
NOV	211.17157	0.000	0.00000	0.000	76.3	74.7	0	0
DEC	220.74312	0.000	0.00000	0.000	76.3	74.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SDX ------

		c o	OLI	N G -			H E	АТІ	N G		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MUMIXAM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	187.14217	20 14	35.F	35.F	442.508	0.000				0.000	54120.	144.834
FEB	169.53336	9 14	38.F	33.F	445.851	0.000				0.000	48917.	144.834
MAR	195.15898	15 15	65. F	58.F	447.863	0.000				0.000	56282.	144.834
APR	184.72827	29 14	64.F	60.F	448.949	0.000				0.000	53106.	144.834
MAY	188.07011	18 14	67. F	59.F	451.222	0.000				0.000	54120.	144.834
JUN	189.68146	29 14	87.F	69.F	450.903	0.000				0.000	54187.	144.834
JUL	185.87202	26 14	80.F	64.F	451.809	0.000				0.000	53039.	144.834
AUG	196.80603	2 14	78.F	63.F	450.839	0.000				0.000	56282.	144.834
SEP	185.28709	14 14	73.F	62.F	452.945	0.000				0.000	53106.	144.834
OCT	184.36110	21 14	68.F	60.F	451.906	0.000				0.000	53039.	144.834
VON	180.52327	1 14	71.F	68.F	450.781	0.000				0.000	52025.	144.834
DEC	187.99649	1 14	49.F	43.F	443.439	0.000				0.000	54120.	144.834
TOTAL	2235.162					0.000					642340.	
MAX					452.94 5					0.000		144.834

0.000

MAX

0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.18TUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 3SDX

WEATHER FILE- NEWARK, NJ

	-ZONE CO	OLING	-ZONE HE	EATING -	B A S E B O	ARDS	P R E - H	E A T
		MAXIMUM		MAXIMUM		MUMIXAM		Ma V Trans
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	MAXIMUM PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	

0.000

0.000

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY 3SDX WEATHER FILE- NEWARK, NJ -----

	A V	E R A G E COOLING HOURS	S P A G	FAN ON HOURS	FAN OFF	AVERAGE THE BETWEEN OUTDOOR& ROOM AIR ALL HOURS	EMPERATURE I BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS	DIFFERENCE BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS	SUMMED TEMS BETWEEN OUTDOOR& ROOM AIR HEATING HOURS	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR ALL HOURS	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR
МОПТН	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(FRAC.OR MULT.)
JAN	75.17	75.17		75.17	0.00	-43.81	-43.81	0.00		1358.22	-0.00001
FEB	75.18	75.18		75.18	0.00	-41.96	-41.96	0.00		1174.75	-0.00003
MAR	75.23	75.23		75.23	0.00	-34.73	-34.73	0.00		1076.49	-0.00003
APR	75.20	75.20		75.20	0.00	-22.30	-22.30	0.00		670.88	0.00011
MAY	75.17	75.17		75.17	0.00	-12.89	-12.89	0.00		448.60	0.00066
JUN	75.22	75.22		75.22	0.00	-3.01	-3.01	0.00		217.23	0.00251
JUL	75. 15	75.15		75.15	0.00	0.32	0.32	0.00		170.89	0.00317
AUG	75.22	75.22		75.22	0.00	-1.73	-1.73	0.00		195.61	0.00369
SEP	75.19	75.19		75.19	0.00	-8.20	-8.20	0.00		265.64	0.00235
OCT	75.14	75.14		75.14	0.00	-18.06	-18.06	0.00		564.09	0.00060
NOV	75. 17	75.17		75.17	0.00	-28.94	-28.94	0.00		868.57	0.00029
DEC	75.18	75.18		75.18	0.00	-39.63	-39.63	0.00		1228.58	-0.00004
3 MW 12 7	75.10	75 10	0.00	25.10							
ANNUAL	15.19	75.19	0.00	75.19	0.00	-21.14	-21.14	0.00	0.00	8239.58	0.00111

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING,

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-F ZONE DEMAND SUMMARY IN 3SDX FOR 3LDX

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	D P M A N D	S.		P. D. C	T E M P E R /	A T I I I I I I I		NOT MET
			-B A S E B O A				LOADS	NOT MET
	HEAT EXTRACTION	HEAT ADDITION	BASEBOARD	MAXIMUM BASEBOARD	MAXIMUM ZONE	MINIMUM	HOURS	HOLDE
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	HOURS UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,		(-,		C00222
JAN	149.73132	0.000	0.00000	0.000	76.3	74.7	0	0
FEB	135.74727	0.000	0.00000	0.000	76.4	74.7	0	0
MAR	157.72980	0.000	0.00000	0.000	76.5	74.7	0	0
APR	148.31773	0.000	0.00000	0.000	76.4	74.7	0	0
MAY	149.80225	0.000	0.00000	0.000	76.3	74.7	0	0
JUN	151.66167	0.000	0.00000	0.000	76.3	74.7	0	0
JUL	146.75827	0.000	0.00000	0.000	76.3	74.7	0	0
AUG	157.35567	0.000	0.00000	0.000	76.3	74.7	0	0
SEP	147.88680	0.000	0.00000	0.000	76.4	74.7	0	0
OCT	146.33066	0.000	0.00000	0.000	76.3	74.7	0	0
NOA	144.05949	0.000	0.00000	0.000	76.3	74.7	0	0
DEC	150.58902	0.000	0.00000	0.000	76.3	74.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SDX

		C	0 0 L I	N G -			H E	АТІ	и G		E L	E C
					MAXIMUM					MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	263.09409	25 14	E2 E	41.F	1034.193	0.000				0.000	153896	
UALV	203.09409	25 14	52.5	41.1	1034.193	0.000				0.000	153775.	405.473
FEB	257.19397	14 14	51.F	41.F	1088.319	0.000				0.000	138988.	405.473
MAR	356.41827	16 14	67.F	50.F	1242.498	0.000				0.000	159607.	405.473
APR	415.84497	15 1 5	73.F	55.F	1457.977	0.000				0.000	150790.	405.473
MAY	485.99478	25 12	72.F	54.F	1491.360	0.000				0.000	153774.	405.473
JUN	555.14801	13 14	96.F	73.F	1591.747	0.000				0.000	153706.	405.473
JUL	566.44348	25 14	84.F	65.F	1628.274	0.000				0.000	150858.	405.473
AUG	575.93042	12 13	84.F	70.F	1604.572	0.000				0.000	159607.	405.473
SEP	497.02283	7 14	82.F	64.F	1460.793	0.000				0.000	150790.	405.473
OCT	422.63153	14 14	75.F	61.F	1368.694	0.000				0.000	150858.	405.473
NOV	340.81183	2 14	77.F	70.F	1298.614	0.000				0.000	147874.	405.473
DEC	290.52545	2 14	64.F	53.F	1171.184	0.000				0.000	153775.	405.473

TOTAL	5027.062					0.000					18244 58.	
MAX					1628.274					0.000		405.473

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR WEATHER FILE- NEWARK, NJ 4SDX

	ZONE CO	OLING	-ZONE HE	EATING -	B A S E B C	ARDS	P R E - F	H E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

REPORT- SS-K SPACE TEMPERATURE SUMMARY

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH 4SDX

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	7. 17	ERAGE	SPA		E M P	NUMBAGE III	CHDEDIMEN	A FREE PLAN	CINAID EDIL		
	A V	ERAGE	SFA	CE I	e m r	BETWEEN OUTDOOR& ROOM AIR	EMPERATURE : BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR	HUMIDITY RATIO DIFFERENCE BETWEEN
	ALL	COOLING	HEATING	FAN ON	FAN OFF	ALL	FAN ON	FAN OFF	HEATING	ALL	OUTDOOR AND
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	ROOM AIR
MONTH	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(FRAC.OR MULT.)
JAN	74.44	74.48		74.44	0.00	-43.08	-43.08	0.00		1335.48	0.00000
FEB	74.41	74.54		74.41	0.00	-41.19	-41.19	0.00		1153.42	-0.00002
MAR	74.61	74.61		74.61	0.00	-34.11	-34.11	0.00		1057.39	-0.00001
APR	74.74	74.74		74.74	0.00	-21.84	-21.84	0.00		657.38	0.00013
MAY	74.83	74.83		74.83	0.00	-12.55	-12.55	0.00		439.51	0.00069
JUN	74.98	74.98		74.98	0.00	-2.77	-2.77	0.00		213.07	0.00257
JUL	74.96	74.96		74.96	0.00	0.51	0.51	0.00		168.80	0.00321
AUG	74.98	74.98		74.98	0.00	-1.49	-1.49	0.00		192.79	0.00374
SEP	74.88	74.88		74.88	0.00	-7.89	-7.89	0.00		257.71	0.00239
OCT	74.72	74.72		74.72	0.00	-17.64	-17.64	0.00		551.03	0.00063
NOV	74.61	74.61		74.61	0.00	-28.38	-28.38	0.00		851.84	0.00031
DEC	74.50	74.50		74.50	0.00	-38.95	-38.95	0.00		1207.55	-0.00002
ANNUA	L 74.72	74.74	0.00	74.72	0.00	-20.67	-20.67	0.00	0.00	8085.99	0.00114

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH REPORT- SS-F ZONE DEMAND SUMMARY IN 4SDX FOR 4LDX WEATHER FILE- NEWARK, NJ

	HEAT	HEAT		MAXIMUM	MAXIMUM	MINIMUM		
	EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
JAN	158.36589	-31.797	0.00000	0.000	75.3	73.3	0	0
FEB	158.89586	-25.314	0.0000	0.000	75.4	72.1	0	0
MAR	227.06105	-7.621	0.00000	0.000	75.6	74.1	0	0
APR	284.07574	-1.363	0.00000	0.000	75.9	74.1	0	0
MAY	346.84781	-0.013	0.00000	0.000	75.9	74.2	o	0
JUN	418.25571	0.000	0.00000	0.000	76.0	74.4	0	O
JUL	425.31116	0.000	0.00000	0.000	76.0	74.4	0	0
AUG	434.02057	0.000	0.00000	0.000	76.0	74.3	0	ō
SEP	361.56223	0.000	0.00000	0.000	75.9	74.3	0	0
							•	· ·
OCT	284.46936	-0.378	0.00000	0.000	75.7	74.2	0	0
	212 56212							
NOA	212.56813	-4.977	0.00000	0.000	75.6	74.1	0	0
DEC	174.80289	-21.092	0.00000	0.000	75.5	73.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SHWONLY WEATHER FILE- NEWARK, NJ

		c o	o r i	N G			-	нЕ	аті	N G		E L	E C
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	7	TIME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000				0.000	-174.148	6	13	22.F	16.F	-514.496	15922.	59.104
FEB	0.00000				0.000	-150.199	21	11	27.F	22.F	-514.496	14397.	59.104
MAR	0.00000				0.000	-124.927	5	1	29.F	24.F	-489.862	16895.	59.104
APR	0.00000				0.000	-41.582	9	4	32.F	27.F	-419.899	15738.	59.104
MAY	0.00000				0.000	-4.892	4	2	40.F	35.F	-204.153	15922.	59.104
NUL	0.00000				0.000	0.000					0.000	16224.	59.104
JUL	0.00000				0.000	0.000					0.000	15435.	59.104
AUG .	0.00000				0.000	0.000					0.000	16895.	59.104
SEP	0.00000				0.000	0.000					0.000	15738.	59.104
OCT	0.00000				0.000	-10.179	25	6	41.F	36.F	-293.686	15436.	59.104
NOA	0.00000				0.000	-74.748	25	6	38.F	37.F	-440.567	15252.	59.104
DEC	0.00000				0.000	-164.725	24	13	33.F	29.F	-502.472	15922.	59.104
TOTAL	0.000					-745.399						189781.	
MAX					0.000						-514.496		59.104

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

WEATHER FILE- NEWARK, NJ

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SHWONLY

		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-174.14850	-514.496	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-150.19852	-514.496	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-124.92693	-489.862	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	-41.58194	-419.899	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-4.89179	-204.153	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	-10.17935	-293.686	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-74.74754	-440.567	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-164.72507	-502.472	0.00000	0.000
TOTAL	0.000		0.000		-745.399		0.000	
MAX		0.000		0.000		-514.496		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY

1SHWONLY ------

MONTH	ALL HOURS (F)	E R A G E COOLING HOURS (F)	S P A (FAN ON HOURS	FAN OFF HOURS	AVERAGE TE BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	EMPERATURE I BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	DIFFERENCE BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	SUMMED TEM BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	68.65		68.55	68.65	0.00	-37.29	-37.29	0.00	1108.80	1156.08	-0.00024
FEB	69.01		68.90	69.01	0.00	-35.79	-35.79	0.00	948.70	1002.03	-0.00024
MAR	69.56		69.24	69 .56	0.00	-29.06	-29.06	0.00	813.52	900.81	-0.00023
APR	72.34		69.47	72.34	0.00	-19.44	-19.44	0.00	312.97	583.31	-0.00024
MAY	75.61		69.62	76.66	74.62	-13.33	-14.00	-12.69	47.79	428.51	-0.00190
JUN	87. 78			0.00	87.78	-15.57	0.00	-15.57			-0.00076
JUL	91.21			0.00	91.21	-15.74	0.00	-15.74			0.00019
AUG	91.10			0.00	91.10	-17.61	0.00	-17.61			0.00073
SEP	82.46			0.00	82.46	-15.47	0.00	-15.47			-0.00135
OCT	71.92		69.66	72.43	71.37	-14.83	-14.96	-14.69	89.43	463.25	-0.00240
NOV	70.87		69.43	70.87	0.00	-24.64	-24.64	0.00	563.31	739.34	-0.00028
DEC	69.20		69.09	69.20	0.00	-33.66	-33.66	0.00	1007.61	1043.34	-0.00021
ANNUAL	G 76.69	0.00	69.09	70.60	85.12	-22.64	-27.71	-15.61	4892.13	8282.66	-0.00058

68.0

0

0

DEC

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-F ZONE DEMAND SUMMARY IN 1SHWONLY FOR 1LHWONLY -----

WEATHER FILE- NEWARK, NJ

-	D E M A N D) S	B A S E B O A	A R D S	T E M P E R	ATURES	L O A D S	N O T M E T
	HEAT	HEAT		MAXIMUM	MAXIMUM	MINIMUM		
	EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
JAN	0.02220	-0.227	-174.14850	-514.496	72.4	57.2	61	0
FEB	0.02024	-0.227	-150.19852	-514.496	71.9	61.7	30	0
MAR	0.02285	-0.114	-124.92693	-489.862	75.3	68.1	0	0
APR	0.02337	-0.342	-41.58194	-419.899	85.3	68.4	0	0
MAY	0.01259	-0.083	-4.89179	-204.153	91.1	69.2	0	0
JUN	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
JUL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
AUG	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
OCT	0.01288	-0.113	-10.17935	-293.686	81.7	68.9	0	0
NOV	0.02295	-0.053	-74.74754	-440.567	83.8	68.3	0	0

0.02258 -0.080 -164.72507 -502.472 73.9

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 04SHWELEV WEATHER FILE- NEWARK, NJ ------

	C O O L I N G												
					MAXIMUM						MAXIMUM	ELEC-	MAXIMUM
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	Т	IME	DRY-	WET-	HEATING	TRICAL	ELEC
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	LOAD
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KM)
JAN	0.00000				0.000	-20.829	5	20	15.F	12.F	-70.170	794.	2.940
FEB	0.00000				0.000	-17.583	20	3	10.F	7.F	-64.515	718.	2.940
MAR	0.00000				0.000	-15.075	5	1	29.F	24.F	-41.844	842.	2.940
APR	0.00000				0.000	-6.853	9	4	32.F	27.F	-37.553	785.	2.940
MAY	0.00000				0.000	-1.336	4	2	40.F	35.F	-23.584	792.	2.940
JUN	0.00000				0.000	0.000					0.000	806.	2.936
JUL	0.00000				0.000	0.000					0.000	767.	2.936
AUG	0.00000				0.000	0.000					0.000	839.	2.936
SEP	0.00000				0.000	0.000					0.000	782.	2.936
OCT	0.00000				0.000	-2.401	25	6	41.F	36.F	-28.578	768.	2.940
NOV	0.00000				0.000	-10.923	25	6	38.F	37.F	-35.851	760.	2.940
DEC	0.00000				0.000	-18.807	26	7	25.F	24.F	-42.089	794.	2.940
TOTAL	0.000					-93.808						9447.	
MAX					0.000						-70.170		2.940

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 04SHWELEV

	-ZONE CO	OLING	-ZONE HE	ATING-	B A S E B C	DARDS	P R E - H	E A T
		MAXIMUM		MAXIMUM		MUMIXAM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-20.82914	-70.170	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-17.58308	-64.515	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-15.07471	-41.844	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	-6.85345	-37.553	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-1.33639	-23.584	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
	0.00000	0.000	0.00000	0.000	-2.40120	-28.578	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-10.92310	-35.851	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-18.80719	-42.089	0.00000	0.000
TOTAL	0.000		0.000		-93.808		0.000	
MAX		0.000		0.000		-70.170		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY ------

04SHWELEV

	ΑV	ERAGE	SPA	CE T	ЕМР	AVERAGE TI	EMPERATURE	DIFFERENCE	SUMMED TEM	TEMP DIFFERENCE			
						BETWEEN OUTDOOR& ROOM AIR	HUMIDITY RATIO DIFFERENCE BETWEEN						
	ALL HOURS	COOLING HOURS	HEATING HOURS	FAN ON HOURS	FAN OFF HOURS	ALL HOURS	FAN ON HOURS	FAN OFF HOURS	HEATING HOURS	ALL HOURS	OUTDOOR AND ROOM AIR		
MONTH	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(FRAC.OR MULT.)		
JAN	69.81		69.81	69.81	0.00	-38.45	-38.45	0.00	1190.08	1192.06	-0.00025		
FEB	69.83		69.82	69.83	0.00	-36.61	-36.61	0.00	1022.48	1024.94	-0.00025		
MAR	69.92		69.86	69.92	0.00	-29.41	-29.41	0.00	901.01	911.70	-0.00024		
APR	70.65		69.91	70.65	0.00	-17.75	-17.75	0.00	467.41	533.82	-0.00025		
MAY	70.72		69.94	73.13	68.45	-8.43	-10.47	-6.52	108.25	295.47	-0.00191		
JUN	78.85			0.00	78.85	-6.64	0.00	-6.64			-0.00076		
JUL	82.32			0.00	82.32	-6.85	0.00	-6.85			0.00019		
AUĠ	80.73			0.00	80.73	-7.24	0.00	-7.24			0.00073		
SEP	73.89			0.00	73.89	-6.90	0.00	-6.90			-0.00135		
OCT	66.80		69.94	70.58	62.76	-9.71	-13.11	-6.08	168.83	311.97	-0.00241		
NOA	70.26		69.89	70.26	0.00	-24.04	~24.04	0.00	696.10	721.09	-0.00029		
DEC	69.85		69.83	69.85	0.00	-34.30	-34.30	0.00	1057.10	1063.38	-0.00022		
ANNUAL	72.82	0.00	69.86	70.31	76.30	-18.77	-27.42	-6.79	5611.24	6937.85	-0.00059		

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH ENTECH ENGINEERING

REPORT - SS-F ZONE DEMAND SUMMARY IN 04SHWELEV FOR 03LHWELV

WEATHER FILE- NEWARK, NJ

----DEMANDS------BASEBOARDS-----TEMPERATURES-----LOADS NOT MET--

	HEAT	HEAT		MAXIMUM	MAXIMUM	MINIMUM		
	EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
JAN	0.00364	-0.001	-4.18313	-14.594	70.7	69.5	0	0
FEB	0.00352	-0.001	-3.53836	-13.297	70.1	69.6	0	0
MAR	0.00457	-0.001	-3.04704	-8.564	73.8	69.7	0	0
APR	0.00568	-0.006	1 20425	7 710	70.0	60 F		
AFK	0.00568	-0.006	-1.38425	-7.710	79.9	69.7	0	0
MAY	0.00331	-0.004	-0.27111	-4.777	87.7	69.8	0	0
	0.00331	0.004	-0.27111	-4.///	07.7	03.8	O .	U
JUN	0.00000	0.000	0.00000	0.000	0.0	200.0	O	0
								-
JUL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
AUĠ	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
OCT	0.00326	-0.005	-0.48151	-5.872	78.3	69.8	0	0
WOLL	0.00511							
NOV	0.00511	-0.001	-2.18267	-7.380	79.2	69.8	0	0
DEC	0.00398	-0.001	-3.78570	-8.592	73.0	60.2	~	•
220	0.00336	-0.001	-3.76570	*0.374	73.0	69.7	0	0

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603

DEC

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-F ZONE DEMAND SUMMARY IN 04SHWELEV FOR 4LHWELV ------

WEATHER FILE- NEWARK, NJ

		D E M A N D	S	-B A S E B O A	R D S	T E M P E R A	ATURES	L O A D S	NOT MET
		HEAT	HEAT		MAXIMUM	MUMIXAM	MINIMUM		
		EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
		ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
М	HTMONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
J	IAN	0.00367	-0.001	-4.09665	-11.793	70.4	69.6	0	0
F	EB	0.00358	-0.001	-3.42965	-11.325	70.1	69.6	0	0
M	1AR	0.00468	-0.001	-2.88654	-7.587	74.5	69.7	0	0
P	APR	0.00585	-0.006	-1.31647	-6.750	81.1	69.8	0	0
M	MAY	0.00344	-0.004	-0.25195	-4.475	88.6	69.9	0	0
J	TUN	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
J	πL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
P	AUĞ	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
9	SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
C	CT	0.00328	-0.004	-0.47515	-5.090	78.9	69.8	0	0
N	10 A	0.00506	-0.002	-2.19242	-6.589	79.1	69.8	0	o

0.00404 -0.001 -3.66441 -8.111 73.2 69.7

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSDXHT

WEATHER FILE- NEWARK, NJ

		C (OOLI	NG-				не	АТІ	NG -		E L	F.C.
		_						~					E C
					MAXIMUM						MAXIMUM	ELEC-	W. W. T. W. D.
	COOLING	TIME	DRY-	WET-	COOLING	HEATING	TT	IME	DRY-	WET-			MOMIXAM
	ENERGY	OF MAX	BULB	BULB	LOAD	ENERGY	OF M		BULB	BULB	HEATING	TRICAL	ELEC
MONTH	(MBTU)	DY HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY				LOAD	ENERGY	LOAD
11011111	(1.1010)	DI HK	TEMP	LEMP	(KB1U/ HK)	(MBTO)	Dī	HK	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	6.29961	14 14	40.F	32.F	28.470	-0.104	17	6	16.F	14.F	-2.105	4812.	13.637
FEB	5.40456	18 14	42.F	34.F	27.983	-0.208	7	6	14.F	12.F	-3.249	4350.	13.637
MAR	7.11239	16 14	67.F	50.F	30.886	-0.063	21	6	38.F	33.F	-1.730	5013.	13.637
APR	7.92157	21 14	80.F	62.F	33.024	0.000					0.000	4725.	13.637
MAY	10.49622	10 14	87.F	68.F	37.916	0.000					0.000	4812.	13.637
JUN	13.25140	30 14	91.F	74.F	40.430	0.000					0.000	4826.	13.637
JUL	14.51261	13 14	90.F	73.F	42.417	0.000					0.000	4711.	13.637
AUG	16.16099	18 14		72.F	43.749	0.000					0.000	5013.	13.637
SEP	14.58331	7 13		65.F	41.812	0.000					0.000	4725.	13.637
OCT	12.71041	14 14		61.F	38.581	0.000					0.000	4711.	13.637
NOV	10.02704	2 14		70.F	36.445	0.000					0.000	4624.	13.637
DEC	7.99638	2 14	64.F	53.F	32.338	0.000					0.000	4812.	13.637
TOTAL	126.476					-0.375						57132.	
MAX					43.749						-3.249		13.637

ENTECH ENGINEERING

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSDXHT

WEATHER FILE- NEWARK, NJ

-	-Z O N E C O	O L I N G	-ZONE HE	ATING-	B A S E B C	ARDS	P R E - F	E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-0.10418	-2.105	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-0.20847	-3.249	0.00000	0.000
MAR	0.00000	0.000	0.0000	0.000	-0.06263	-1.730	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.0000	0.000	0.00000	0.000
NOA	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		-0.375		0.000	
MAX		0.000		0.000		-3.249		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-K SPACE TEMPERATURE SUMMARY 0SDXHT WEATHER FILE- NEWARK, NJ

	ΑV	ERAGE	SPA	СЕ Т	ЕМР	AVERAGE THE BETWEEN OUTDOOR& ROOM AIR	EMPERATURE BETWEEN OUTDOOR& ROOM AIR	DIFFERENCE BETWEEN OUTDOOR& ROOM AIR	SUMMED TEM BETWEEN OUTDOOR& ROOM AIR	P DIFFERENCE BETWEEN OUTDOOR& ROOM AIR	HUMIDITY RATIO DIFFERENCE BETWEEN
	ALL	COOLING	HEATING	FAN ON	FAN OFF	ALL	FAN ON	FAN OFF	HEATING	ALL	OUTDOOR AND
MONTH	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	ROOM AIR (FRAC.OR MULT.)
JAN	74.15	74.30	72.94	74.15	0.00	-42.79	-42.79	0.00	185.63	1326.57	-0.00002
FEB	74.10	74.19	72.91	74.10	0.00	-40.87	-40.87	0.00	253.13	1144.49	-0.00006
MAR	74.27	74.41	72.95	74.27	0.00	-33.77	-33.77	0.00	100.98	1046.77	-0.00004
APR	74.48	74.56		74.48	0.00	-21.58	-21.58	0.00		649.89	0.00010
MAY	74.65	74.65		74.65	0.00	-12.37	-12.37	0.00		436.12	0.00066
JUN	74.84	74.84		74.84	0.00	-2.63	-2.63	0.00		212.96	0.00254
JUL	74.89	74.89		74.89	0.00	0.58	0.58	0.00		169.67	0.00319
AUG	74.99	74.99		74.99	0.00	-1.50	-1.50	0.00		193.28	0.00371
SEP	74.93	74.93		74.93	0.00	-7.94	-7.94	0.00		259.54	0.00236
OCT	74.79	74.79		74.79	0.00	-17.70	-17.70	0.00		553.23	0.00060
NOV	74.64	74.64		74.64	0.00	-28.42	-28.42	0.00		853.02	0.00028
DEC	74.49	74.51		74.49	0.00	-38.95	-38.95	0.00		1207.38	-0.00005
ANNUA	L 74.61	74.66	72.93	74.61	0.00	-20.56	-20.56	0.00	539.74	8052.93	0.00111

ENTECH ENGINEERING

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 SDL RUN 1

READING,

DEC

PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

WEATHER FILE- NEWARK, NJ

REPORT- SS-F ZONE DEMAND SUMMARY IN OSDXHT FOR OLDXHT -----

		D E M A N D	S	-B A S E B O A	R D S	T E M P E R A T	URES	L O A D S	NOT MET
		HEAT	HEAT		MAXIMUM	MUMIXAM	MINIMUM		
		EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
		ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
	MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
	JAN	4.30086	-1.720	-0.10418	-2.105	75.3	72.9	0	0
	FEB	3.73289	-1.690	-0.20847	-3.249	75.3	72.8	0	0
	MAR	4.94455	-1.548	-0.06263	-1.730	75.4	72.9	0	0
	APR	5.30856	-1.001	0.00000	0.000	75.5	73.2	0	0
	MAY	6.90018	-0.242	0.00000	0.000	75.7	74.1	0	0
,	JUN	9.41340	0.000	0.00000	0.000	75.8	74.2	0	0
	JUL	10.56290	0.000	0.00000	0.000	75.9	74.3	0	0
	AUG	12.17193	0.000	0.00000	0.000	75.9	74.4	0	0
	SEP	10.82609	0.000	0.00000	0.000	75.9	74.3	0	0
	OCT	8.91010 6.55245	0.000	0.00000	0.000	75.8	74.3	0	0
	1400	0.35245	-0.159	0.00000	0.000	75.7	74.1	0	0

5.26215 -0.974 0.00000 0.000 75.5 73.7

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH READING, 19603 PA

11: 9:52 SDL RUN 1

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSDXNOHT WEATHER FILE- NEWARK, NJ

MAXIMUM MIMIXAM ELEC-MAXIMUM COOLING COOLING TIME DRY- WET-HEATING TIME DRY- WET-HEATING TRICAL ELEC ENERGY OF MAX BULB BULB LOAD ENERGY OF MAX BULB BULB LOAD ENERGY LOAD MONTH (MBTU) TEMP TEMP (KBTU/HR) DY HR (MBTU) DY HR TEMP TEMP (KBTU/HR) (KWH) (KW) 52.F 41.F JAN 14.36400 25 14 50.562 0.000 0.000 7287. 20.697 FEB 12.83054 11 14 52.F 50.F 50.644 0.000 0.000 6586. 20.697 MAR 16.48144 15 15 65.F 58.F 53.329 0.000 0.000 7593. 20.697 APR 17.45968 68.F 60.F 22 14 56 450 0.000 0.000 7155. 20.697 MAY 20.68633 10 14 87.F 68.F 61.186 0.000 0.000 7287. 20.697 JUIN 23.55266 14 14 88.F 74.F 63.584 0.000 0.000 7308. 20.697 JUL 24.38587 90.F 73.F 13 14 65.283 0.000 0.000 7133. 20.697 AUG 26.03597 18 14 93.F 72.F 66.099 0.000 0.000 7593. 20.697 SEP 23.36196 20 14 83.F 72.F 64.302 0.000 0.000 7155. 20.697 OCT 20.90982 21 14 68.F 60.F 60.739 0.000 0.000 7133. 20.697 NOV 17.93601 77.F 70.F 2 14 60.514 0.000 0.000 7002. 20.697 DEC 16.11394 2 14 64.F 53.F 54.170 0.000 0.000 7287. 20.697 -----TOTAL 234.119 0.000 86517. MAX 66.099 0.000 20,697

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

0.000

0.000

MAX

0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 STREADING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSDXNOHT

WEATHER FILE- NEWARK, NJ

-	-Z O N E C O	OLING	-ZONE HE	ATING -	B A S E B O	A R D S	P R E - H	E A T
		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM
	ZONE COIL	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NUC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	

0.000

ENTECH ENGINEERING

ANNUAL 74.83

74.83

0.00

74.83

0.00

-20.78

-20.78

0.00

0.00

8122.36

0.00111

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

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DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING, PA 19603 REPORT- SS-K SPACE TEMPERATURE SUMMARY

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH OSDXNOHT

WEATHER FILE- NEWARK, NJ

AVERAGE SPACE TEMP AVERAGE TEMPERATURE DIFFERENCE SUMMED TEMP DIFFERENCE BETWEEN BETWEEN BETWEEN BETWEEN BETWEEN HUMIDITY RATIO OUTDOOR& OUTDOOR& OUTDOOR& OUTDOOR& OUTDOOR& DIFFERENCE ROOM AIR ROOM AIR ROOM AIR ROOM AIR ROOM AIR BETWEEN ALL COOLING HEATING FAN ON FAN OFF FAN ON ALL FAN OFF HEATING ALL OUTDOOR AND HOURS ROOM AIR MONTH (F) (FRAC.OR MULT.) JAN 74.60 74.60 74.60 0.00 -43.24 -43 24 0.00 1340.47 -0.00002 FEB 74.59 74.59 74.59 0.00 -41.37 -41.37 0.00 1158.46 -0.00005 MAR 74.69 74.69 74.69 0.00 -34.19 -34.19 0.00 1059.80 -0.00004 APR 74.76 74.76 74.76 0.00 -21.86 -21.86 0.00 657.86 0.00010 MAY 74.86 74.86 74.86 0.00 -12.58 -12.58 0.00 440.84 0.00066 JUN 75.00 75.00 75.00 -2.79 0.00 -2.79 0.00 214.41 0.00253 ıπ. 75.00 75.00 75.00 0.00 0.47 0.47 0.00 169.89 0.00319 AUG 75.07 75.07 75.07 0.00 -1.58 -1.58 0.00 194.01 0.00370 SEP 75.00 75.00 75.00 0.00 -8.01 -8.01 0.00 261.06 0.00236 OCT 74.87 74.87 74.87 0.00 -17.78 -17.78 0.00 555.71 0.00060 NOV 74.78 74.78 74.78 0.00 -28.55 -28.55 0.00 856.88 0.00028 DEC 74.68 74.68 74.68 0.00 -39.13 -39.13 0.00 1212.97 -0.00005

ENTECH ENGINEERING

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

READING,

ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
PA 19603 4130.05 FT MONIMOVENT 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

REPORT- SS-F ZONE DEMAND SUMMARY IN OSDXNOHT FOR OLDXONLY WEATHER FILE- NEWARK, NJ

	HEAT	HEAT		MAXIMUM	MAXIMUM	MINIMUM		
	EXTRACTION	ADDITION	BASEBOARD	BASEBOARD	ZONE	ZONE	HOURS	HOURS
	ENERGY	ENERGY	ENERGY	LOAD	TEMP	TEMP	UNDER	UNDER
MONTH	(MBTU)	(MBTU)	(MBTU)	(KBTU/HR)	(F)	(F)	HEATED	COOLED
JAN	9.40461	-0.585	0.00000	0.000	75.6	74.1	0	0
FEB	8.52285	-0.699	0.00000	0.000	75.6	74.0	0	0
MAR	11.21039	-0.276	0.00000	0.000	75.7	74.1	0	0
APR	12.09204	-0.049	0.00000	0.000	75.8	74.2	0	. 0
MAY	14.96230	0.000	0.00000	0.000	75.8	74.3	0	0
JUN	17.82047	0.000	0.00000	0.000	75.9	74.4	0	0
JUL	18.48841	0.000	0.00000	0.000	76.0	74.5	0	0
AUG	20.07511	0.000	0.00000	0.000	76.0	74.4	0	o
SEP	17.75377	0.000	0.00000	0.000	75.9	74.4	0	0
OCT	15.23885	0.000	0.00000	0.000	75.8	74.3	0	0
NOV	12.51310	0.000	0.00000	0.000	75.8	74.2	0	0
DEC	10.74324	-0.172	0.00000	0.000	75.7	74.1	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- PS-D PLANT LOADS SATISFIED

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	869.3	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	
COOLING LOADS	MRTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	16276.7	
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	26099.9	100.0
IOND CAMICATED	26000 -	
LOAD SATISFIED TOTAL LOAD ON PLANT	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1

REPORT- PS-D PLANT LOADS SATISFIED

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

WEATHER FILE- NEWARK, NJ

-----(CONTINUED)------

SUMMARY OF LOADS MET

	TOTAL	LOAD	TOTAL	PEAK	HOURS
TYPE OF LOAD	LOAD	SATISFIED	OVERLOAD	OVERLOAD	OVERLOADED
	(MBTU)	(MBTU)	(MBTU)	(MBTU)	
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

REA RS_1	DING,	GINBERING PA 196 HOURLY-REPOR	03 413	OR - ELITE S 0.05 FT. MON			DOE-2 FIMOCA3 - D			:58 SDL RUN 1 BTUH PAGE 1- 1
MMDDHH	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLB V	OSDXHT	OSDXNOHT	
	TOT PAN BLECTRIC KW	TOT FAN BLECTRIC KW	TOT FAN BLECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT PAN ELECTRIC KW	TOT FAN ELECTRIC KW	CAE
	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	3×15
MONTHLY	SUMMARY (J	AN)								
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	A \ ^
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	(1) ₁) ~
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299	
VA	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHLY	SUMMARY (F	EB)								
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	4606.056	2345.709	4937.974	3368.748	12332.442	0.178	0.889	336,118	501.509	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHU	SUMMARY (M	IAP)								
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX	20.202	10.288	21,658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	5575.751	2839.543	5977.548	4077.958	14928.747	0.215	1.076	406.879	607.090	
VA	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHLA	SUMMARY (A	PR)								
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2,200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1,474	2.200	
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371,498	554.299	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHLY	SUMMARY (M	(AY)								
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.094	0.468	371.498	554.299	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200	
MONTHLY	SUMMARY (J	TUN)								
MIN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2,200	
SM	5333.328	2716.085	5717.655	3900.655	14279.671	0.000	0.000	389.189	580.694	
VA	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MONTHLY	SUMMARY (J	TUL)								
MN	20.202	10.288	21,658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.000	0.000	353.808	527.904	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	

ENTECH ENGINEERING BZDOE - ELITE SOPTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:44:58 SDL RUN 1 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOCA3 - DX COOL W/HW & PER HW -. 1ETUH READING, 19603 RS 1 - HOURLY-REPORT PAGE 2- 1 1SDXHT 1SDX 2SDX 3SDX 4SDX 1SHWONLY 04SHWBLE OSDXHT OSDXNORT TOT FAN TOT PAN TOT FAN BLECTRIC BLECTRIC BLECTRIC BLECTRIC BLECTRIC ELECTRIC ELECTRIC ELECTRIC BLECTRIC KW KW KW KW KW KW KW ---- (33) ---- (33) ---- (33) ----(33) ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) MONTHLY SUMMARY (AUG) 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 21.658 14.775 0.000 54.090 0.000 1.474 2.200 5575.751 2839.543 5977.548 SM 4077.958 14928.747 0.000 0.000 406.879 607.090 AV 21.658 14.775 54.090 0.000 0.000 1.474 2 200 MONTHLY SUMMARY (SEP) 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2,200 MX 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 SM 5090.904 2592.626 5457.761 3723 353 13630 595 0.000 0.000 371.498 554.299 AV 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MONTHLY SUMMARY (OCT) 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 2469.168 21.658 14.775 0.001 0.004 1.474 2.200 4848.480 5197.868 3546.050 12981.519 0.103 0.515 353.808 527.904 AV 20.202 14.775 54.090 0.000 0.002 1.474 2.200 MONTHLY SUMMARY (NOV) MN 20.202 10 288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 MX 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 4848.480 2469.168 5197.868 3546.050 12981.519 0.187 0.936 353.808 527.904 AV 20.202 10.288 21.658 14.775 0.001 MONTHLY SUMMARY (DEC) 10.288 MN 20.202 21.658 14.775 54.090 0.001 0.004 1.474 MX 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 SM 5090.904 2592.626 5457.761 3723.353 0.983 371.498 554.299 AV 20.202 10.288 21.658 14 775 54 090 0.001 0.004 YEARLY SUMMARY 20.202 10.288 MN 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 31111.520 21.658 14.775 0.001 54.090 0.004 1.474 2.200 SM 61090.844 65493.133 44680.230 163567.141 1 367 6.833 4457.981 6651.591 AV 20.202 21.658 14.775 54.090 0.000 0.002 1.474 2.200

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:44:58 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1ETUH
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
EQUIPMENT	SIZE INSTD (MBTU/H) AVAIL	SIZE INSTD	SIZE INSTO	SIZE INSTD	SIZE INSTD (MBTU/H) AVAIL	SIZE INSTD
STM-BOILER	0.591 1 1					
DHW-HEATER	0.000 1 1					
HERM-REC-CHLR	3.892 1 1					

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:44:58 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USB WEATHER FILE- NEWARK, NJ

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	2153.016	287.883	0.000
JAN	PEAK (KBTU)	5076.708	767.666	0.000
	DY/HR	13/14	5/20	31/24
	TOTAL (MBTU)	1951.146	248.988	0.000
PEB	PEAK (KBTU)	5085.388	764.186	0.000
	DY/HR	15/14	20/ 3	28/24
	TOTAL (MBTU)	2249.282	217.413	0.000
MAR	PEAK (KBTU)	5114.029	709.479	0.000
	DY/HR	16/14	5/ 1	31/24
	TOTAL (MBTU)	2154.637	82.869	0.000
APR	PEAK (KBTU)	5172.894	626.246	0.000
	DY/HR	21/14	9/ 4	30/ 1
	TOTAL (MBTU)	2219.887	13.871	0.000
MAY	PEAK (KBTU)	5229.586	356.551	0.000
	DY/HR	10/14	4/ 2	31/ 1
	TOTAL (MBTU)	2223.483	0.000	0.000
JUN	PEAK (KBTU)	5290.973	0.000	0.000
	DY/HR	13/14	30/ 1	30/ 1
	TOTAL (MBTU)	2217.316	0.000	0.000
JUL	PEAK (KBTU)	5249.647	0.000	0.000
	DY/HR	13/13	31/ 1	31/ 1
	TOTAL (MBTU)	2308.327	0.000	0.000
AUG	PEAK (KBTU)	5269.803	0.000	0.000
	DY/HR	18/14	31/ 1	31/ 1
	TOTAL (MBTU)	2174.473	0.000	0.000
SEP	PEAK (KBTU)	5198.902	0.000	0.000
	DY/HR	7/14	30/ 1	30/ 1
	TOTAL (MBTU)	2173.409	24.376	0.000
OCT	PEAK (KBTU)	5158.363	469.762	0.000
	DY/HR	14/14	25/ 6	31/24
	TOTAL (MBTU)	2108.344	139.934	0.000
NOV	PEAK (KBTU)	5156.199	647.688	0.000
	DY/HR	2/14	25/ 6	30/24
	TOTAL (MBTU)	2166.566	274.207	0.000
DEC	PEAK (KBTU)	5098.862	721.583	0.000
	DY/HR	2/14	24/13	31/24
	ONE YEAR	26099.888	1289.541	0.000
	USE/PEAK	5290.973	767.666	0.000
	ODDITE WALK	220.213		0.000

ENTECH ENGINEERING EZDOE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:44:58 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD

	260.2	100.0
STM-BOILER		
DHW-HRATER	0.0	0.0
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	200.0
TOTAL BOAD ON FEMALE	003.3	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HRRM-REC-CHLR	16276.7	100.0
	*********	***************************************
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	26099.9	100.0

LOAD SATISFIED	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	100.0
TOTAL LOAD ON PLANT	20033.3	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISPIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

	REAL RP 1	ENTECH ENGIN	BERING 19603 RLY-REPORT			DEVELOPMENT I		7/ 2/1996 L W/HW & PER	HW1BTUH		
			RLI-KAPORI				 			AGE 1-	- 1
	MMODHH	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL						
		-CHLR	-CHLR	ER	BR						
		BLECTRIC	CONDENSE	ELECTRIC	FUBL						
		USE	PAN BLEC	USE	USB						
		BTU/HR	BTU/HR	BTU/HR	BTU/HR						
		(3)	(18)	(3)	(4)						
	MONTHLY	SUMMARY (JAN)									
	MN	937605.	583796.	515.	9936						
	MX	1082899.	583796.	12991.	759552						
	SM	256205232.		2475849.	81060664						
	VA	1016687.	583796.	9825.	321669						
	MONTHLY	SUMMARY (FEB)									
	MIN	928071.	583796.	515.	9936						
	MX	1088467.	583796.	12991.	658489						
		233673600.		2016624.							
	AV	1024884.	583796.	8845.	229702						
		SUMMARY (MAR)									
	MN	957016.	583796.	515.	9936						
	MX	1122546.	583796.	12991.							
		287182592.		2031500.	54446080						
	AV	1040517.	583796.	7361.	197268	•					
	MONTHLY	SUMMARY (APR)									
	MN	966029.	583796.	515.	9936						
	MX	1183155.	583796.	12991.	488100						
	SM	268408896.	147116464.	693315.	15506258						
	AV	1065115.	583796.	2751.	61533						
	MONTHLY	SUMMARY (MAY)									
	MIN	985677.	583796.	0.	0						
	MX	1238328.	583796.	12991.	257973						
		275527424.		116774.	2262290						
	AV	1093363.	583796.	463.	8977						
	MONTHY.V	SUMMARY (JUN)									
	MN	1016320.	583796.	0.	0						
	MX	1304448.	583796.	0.	0						
		298948832.	154122016.	0.	0						
•		1132382.	583796.	0.	0						
•	MANAGER	SUMMARY (JUL)									
	MONTHLY	1026370.	583796.	0.	0	_					
	MX	1258694.	583796.	0.	0						
		274606400.		0.	0						
	211	. 1144193.	583795.	0.							

	DING, PA	19603	4130.05 PT.	MONMOUTH - MYE	R CENTER, NJ	FTMOCA3 -	DX COOL	W/HW & P		
RP_1		RLY-RBPORT								PAG
	HERM-REC	HBRM-RBC	STM-BOIL	STM-BOIL						
	-CHLR	-CHLR	BR	ER						
	BLECTRIC	CONDENSR	BLECTRIC	FUEL						
	USB	PAN BLBC	USE	USB						
	BTU/HR	BTU/HR	BTU/HR							
	(3)	(18)	(3)	(4)						
MONTHLY	SUMMARY (AUG)									
MN	1013925.	583796.	0.	0.						
MX	1280765.		0.	0.						
SM		161127568.		0.						
AV	1144025.		0.	0.						
MONTHLY	SUMMARY (SEP)									
MIN	993271.	583796.	0.	0.						
MX	1207949.									
SM	276855072.	147116464.	0.	0.						
AV	1098631.		0.	0.						
MONTHLY	SUMMARY (OCT)								,	
MN	975607.	583796.	0.	0.						
MIX	1167410.	583796.	12991.	324996.						
SM	255514720.	140110912.		4736180.						
AV	1064645.	583795.	1005.	19734.						
	SUMMARY (NOV)									
MN		583796.								
MX	1164715.	583796.	12991.	558733.						
	250589440.									
AV	1044123.	583795.	5206.	126128.						
	SUMMARY (DEC)									
MIN		583796.								
MX	1107379. 257862176.	583796.	12991.	717930.						
AV	1023263.	583796.	9948.	283492.						
	SUMMARY									
MIN		583796.	0.	0.						
	1304448.	583796.	12991.	759552.						
	3251125248.									
AV	1075108.	583795.	3747.	103206.						

REA		GINBERING PA 196 HOURLY-REPOR	03 413	OE - ELITE SO 0.05 FT. MON			DOB-2 FTMOCA3 - D			:52 SDL RUN 1 BTUH PAGE 1- 1
ммоюнн	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWELE V	OSDXHT	OSDXNOHT	
	TOT FAN BLECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN BLECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT PAN ELECTRIC KW	TOT FAN BLECTRIC KW	TOT FAN BLECTRIC KW	CAB
	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	Exist 192
MONTHLY	SUMMARY (J.	AN)								Wich
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	- 1
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	200
SM	9939.382	5061.797	10655.630	7269.405	26612.115	0.384	1.919	725.307	1082.203	1 2
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	J+
	SUMMARY (F									
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX SM	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
AV	8969.687 20.202	4567.963 10.288	9616.056 21.658	6560.194 14.775	24015.811 54.090	0.346	1.732	654.545 1.474	976.622 2.200	
	GER 012 DEC /14									
MN	SUMMARY (M 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1 474		
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHLY	SUMMARY (A	PR)								
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2,200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
	SUMMARY (M									
MIN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX SM	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
AV.	9939.382 20.202	5061.797 10.288	10655.630 21.658	7269.404 14.775	26612.115 54.090	0.187	0.936	725.307	1082.203	
MONMA	CIRCUSDY /T	TDY								
MONTHLY	SUMMARY (J 20.202	UN) 10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	9212.109	4691.421	9875.950	6737.497	24664.885	0.000	0.000	672.235	1003.018	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MONTHLY	SUMMARY (J	UL)								
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MDX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	10181.806	5185.255	10915.524	7446.708	27261.189	0.000	0.000	742.997	1108.599	

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1 PA 19603 • HOURLY-REPORT 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -. 1BTUH READING, 19603 - RS 1 PAGE 2- 1 1SDXHT 1 SDX 2SDX 3SDX 4SDX 1SHWONLY 04SHWELE OSDXHT OSDXNOHT TOT FAN TOT PAN TOT PAN TOT PAN TOT FAN TOT FAN TOT FAN TOT PAN TOT FAN BLECTRIC ELECTRIC ELECTRIC ELECTRIC BLECTRIC BLECTRIC ELECTRIC ELECTRIC BLECTRIC KW KW KW KW KW KW KW KW KW ---- (33) ---- (33) ---- (33) ----(33) ---- (33) ----(33) ---- (33) ---- (33) ---- (33) MONTHLY SUMMARY (AUG) MN 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 9454.534 4814.880 10135.844 6914.799 25313.963 0.000 0.000 689.926 1029.413 AV 20.202 10.288 21.658 14.775 0.000 0.000 1.474 MONTHLY SUMMARY (SEP) MN 20.202 10 288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 20.202 10.288 MX 21.658 14.775 54.090 0.000 0.000 1.474 2.200 4814.880 10135.844 6914.800 25313.961 0.000 0.000 689.926 1029.413 20.202 ΔV 10.288 21.658 14.775 0.000 0.000 1.474 MONTHLY SUMMARY (OCT) MN 20.202 10 288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 10.288 20.202 14.775 0.001 21.658 54.090 0.004 1.474 2,200 SM 10181.806 5185.255 10915.524 7446.708 27261.191 0.197 0.983 742.997 1108.598 ΑV 20.202 10.288 21.658 14.775 54.090 0.000 0.002 1.474 2.200 MONTHLY SUMMARY (NOV) 20.202 10.288 21.658 14.775 54.090 0.001 0.004 MN 1.474 2.200 20.202 10.288 21.658 14.775 0.001 1.474 54.090 0.004 2.200 SM 9696.958 4938.338 10395.737 7092.102 25963.037 0.374 1.872 707.616 1055.808 20.202 10.288 ΑV 21.658 0.001 0.004 14.775 54.090 1.474 2,200 MONTHLY SUMMARY (DEC) 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 10.288 5061.797 MX 20.202 21.658 14.775 54.090 0.001 0.004 1.474 2.200 SM 9939.382 10655.631 7269.405 26612.113 0.384 1.919 725.307 1082,203 14.775 0.004 1.474 2.200 YEARLY SUMMARY MN MX 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2,200 59013.141 124229.055 84750.625 310258.313 2.602 13.010 8456.014 12616.906 AV 20.202 10.288 21.658 14.775 54.090 0.000 0.002 1.474 2,200

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11: 9:52 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOCA3 - DX COOL W/HW & PER HW - LIBTUH
REPORT- PV-A EQUIPMENT SIZES MEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
RQUIPMENT	SIZE INSTD (MBTU/H) AVAIL					
STM-BOILER	0.591 1 1					
DHW-HEATER	0.000 1 1					
HERM-REC-CHLR	3.892 1 1					

ENTECH ENGINEERING EZDOE - ELITE SOPTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11: 9:52 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- PS-D PLANT LOADS SATISFIED WRATHER PILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD

STM-BOILER	869.3	100.0
DHW-HEATER	0.0	0.0
	*************	**************
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD

HERM-REC-CHLR	16276.7	100.0
	***********	***************************************
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
••••		
BLECTRICITY	26099.9	100.0
	***************************************	************
LOAD SATISFIED	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISPIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11: 9:52 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	43.20	1289.53	0.00
SPACE COOL	7908.29	0.00	0.00
HVAC AUX	4941.25	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	4983.87	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	8224.01	0.00	0.00
TOTAL	26100.61	1289.53	0.00

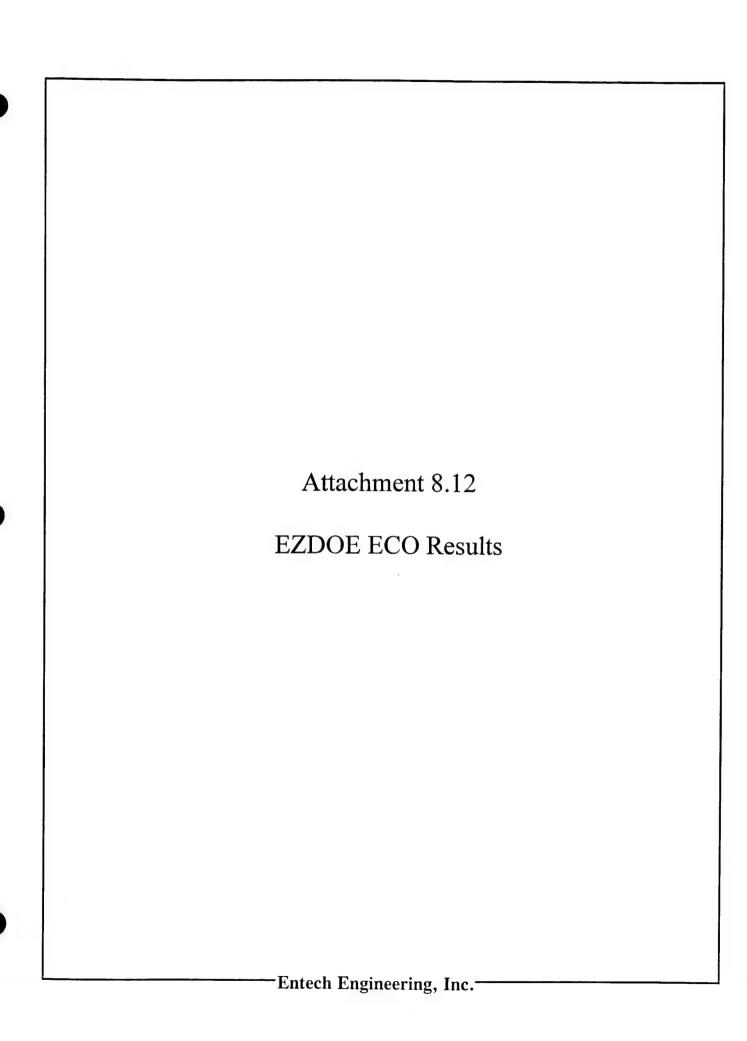
TOTAL SITE ENERGY 27389.43 MBTU 213.2 KBTU/SQFT-YR GROSS-AREA 213.2 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 79667.59 MBTU 620.1 KBTU/SQFT-YR GROSS-AREA 620.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 9.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

	ENTECH ENGIN	BERING	BZDOB - EL	TE SOFTWARE D	EARTO DWEML II	NC	DOE	-2.1D	7/ 2	/1996	11:	9:52	PDL	RUN	1
	DING, PA	19603	4130.05 FT	. MONMOUTH - M	YER CENTER, I	NJ FI	MOCA3 -	DX COC	L W/H	F & PER	HW	1BTUH			
RP_1		RLY-REPORT										P	age	1-	1
															-
MMDDHH	HERM-REC	HERM-REC		STM-BOIL											
		-CHLR	ER	ER											
	BLECTRIC	CONDENSE	BLECTRIC	FURL											
	USE	FAN BLEC BTU/HR	USB	USE BTU/HR											
	BTU/HR	BTU/HR	ELECTRIC USE BTU/HR	BTU/HR											
	(3)	(18)	(3)	(4)											
MONTHLY	SUMMARY (JAN)														
MN	535361	401088	1605.	31005.											
MX	876201	583796	12991	767666									•		
SM	358254432	263037744	6162833	206822576											
AV	728159	583796. 263037744. 534630.	12526	420371											
•••	,20233.	334030.	12320.	120372.											
MONTHLY	SUMMARY (FEB)														
MN	527142.	394952.	1885.	36397.											
MX	875766.	583796.	12991.	764186.											
SM	327136096.	583796. 239127616.	5541246.	196616144.											
AV	736793.	538576.	12480.	442829.											
MONTHLY	SUMMARY (MAR)														
MIN	631776.	473001.	731.	14115.											
MX	900159.	473001. 583796.	12991.	709479.											
SM	367624640	266104240.	5632770.	162967184											
AV	785523.		12036.												
	SUMMARY (APR)														
MN	661938.	495478. 583796.	515.	9936.											
MX	923082.	583796.	12991.	626246.											
SM		271392160.													
AV	818309.	579898.	5834.	143938.											
MONTHLY	SUMMARY (MAY)														
MN	743947.	556541. 583796.	0.	0.											
MX	975469.	583796.	12991.	356551.											
	413771104.	287143520.	561445.	11608750.											
AV	840998.	583625.	1141.	23595.											
MONTHLY	SUMMARY (JUN)														
MIN	798306.	583796.	0.	0.											
MX	1003135.	583796. 583796.	0. 0.	0.											
SM	396264192.	266210880.	0.	0.											
AV	869000.		0.	0.											
MONTH	SUMMARY (JUL)														
MN			0	٥.											
MX	992180.	583796. 583796.	0. 0.	0.											
	441250368.		0.	0.											
AV		583796.	0.	0.											
AV	0/347/.	303/36.	U.	υ.											

	REA RP_1		EERING 19603 RLY-REPORT			DEVELOPMENT IN		11: 9:52 PDL R HW1ETUH PAGE 2	
		HERM-REC -CHLR BLECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSR FAN BLBC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL BR FUBL USB BTU/HR			 	••••
		(3)		(3)	(4)				
	MONTHULY	SUMMARY (AUG)							
				•	•				
	MIN	788823.	583796.	0.	0.				
	MX	991107.	583796.	0.	0.				
	SM	405776256.	273216416.	0.	0.				
	AV	867043.	583796.	0.	, 0.				
	MONTHLY	SUMMARY (SEP)							
	MN	781980.	583796.	0.	0.				
	MX	948940.	583796.	0.	0.				
	SM	397793312.	273216416.	0.	0.				
	VA	849986.	583796.	0.	0.				
	MONTHLY	SUMMARY (OCT)							
	MN	683149.	511279.	0.	0	,			
	MX	907671.	583796.	12991.	469762				
	SM	415276384.	293634560.	910581.	19639862				
	AV	823961.	582608.	1807.	38968				
	MONTHLY	SUMMARY (NOV)							
	MIN	626375.	468976.	515.	9936				
	MX	922674.	583796.	12991.					
	SM	380792512.	274897728.	4323636.	109662880				
	AV	793318.	572704.	9008.	228464				
	MONTHE	SUMMARY (DEC)							
	MIN	546128.	409124.	515.	9936				
	MX	885942.	583796.	12991.	721583				
	SM	370277664.	270221984.	6001262.	202766960				
	AV.	752597.	549232.	12198.	412128				
	VENDIV	SUMMARY							
	MN	527142.	394952.	0.	0				
	MX	1003135.	583796.	12991.	767666				
		4657185792.	3272436736.	31863882.	977447296				
•	AV	811922.	570509.	5555.	170406				
•	-								



ECO-3

pps	ENTECH ENGINE DING. PA	BRING	BZDOB - EI	LITE SOFTWARE	DEVELOPMENT INC	DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
S_1		19603 LLY-REPORT	4130.05 F	r. MONMOUTH -	MYER CENTER, NJ	FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PAGE 1- 1
04ODHH	1SMCAHUS ZR	2SPERFC	3SPERFC	4SPBRFC		
	SUPPLY	SUPPLY	SUPPLY	SUPPLY		
	BLECTRIC	BLECTRIC	BLECTRIC	BLECTRIC		
	KW	XW	KW	KW		
			••••	***		WICL TYMANEC
	(49)	(49)	(49)	(49)		
MONTHLY	SUMMARY (JAN)					MCL SURVER SETRICK D 3
MN	0.000	1.523	1.523	1.786		シスタルシー
MX	30.066	1.523	1.523	1.786		
SM	1262.789	749.415	749.415	878,909		
AV	2.567	1.523	1.523	1.786		
	CIRCLE (FOR)					
MONTHLY	SUMMARY (FEB) 0.000					^ ^ ^ ^ `
MX	30.066	1.523	1.523	1.786		OCC VELK DE
SM		1.523	1.523	1.786		The Next Si
AV	1142.523 2.573	676.301 1.523	676.301	793.162		
AV	4.3/3	1.523	1.523	1.786		
MONTHLY	SUMMARY (MAR)					
MN	0.000	1.523	1.523	1.786		
MX	30.066	1.523	1.523	1.786		
SM	1383.055	712.858	712.858	836.035		
AV	2.955	1.523	1.523	1.786		
MONTHUT V	SUMMARY (APR)					
MN	0.000	1.523	1 522			
MX	30.066	1.523	1.523	1.786 1.786		
SM	3758.301	712.858	712.858	836.035		
AV	8.031	1.523	1.523	1.786		
		~	1.525	1.700		
	SUMMARY (MAY)					
MIN	0.000	1.523	1.523	1.786		
MX	30.066	1.523	1.523	1.786		
SM	5923.082	749.415	749.415	878.909		
AV	12.039	1.523	1.523	1.786		
MONTHLY	SUMMARY (JUN)					
MN	0.000	1.523	1.523	1.786		
MX	30.066	1.523	1.523	1.786		
SM	4239.363	694.579	694.579	814.599		
AV	9.297	1.523	1.523	1.786		
MONTHLY	SUMMARY (JUL)					
MN	0.000	1.523	1.523	1.786		
MX	30.066	1.523	1.523	1.786		
SM	4960.957	767.693	767.693	900.346		
AV	9.843	1.523	1.523	1.786		

	ENTECH ENGINE DING, PA	19603	EZDOR - RI 4130.05 FT	ITB SOFTWARE . MONMOUTH -	DEVELOPMENT IN MYER CENTER, N	IC DO	8-2.1D - SIM MC	6/26/1996 A H20 ONLY	14:53: W/OA SCHD1	7 SDL	. RUI
S_1	- HOU	RLY-REPORT								PAGE	2-
	1SMCAHUS ZR	2SPERFC	3SPERFC	4SPERFC	•						
	SUPPLY	SUPPLY	SUPPLY	SUPPLY							
	BLECTRIC	BLBCTRIC	BLECTRIC	BLECTRIC							
	KW	KW	KW	KW							
	(49)	(49)	(49)	(49)							
MONTHLY	SUMMARY (AUG)										
MIN	0.000	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	3728.234	712.858	712.858	836.035							
AV	7.966	1.523	1.523	1.786							
MONTHLY	SUMMARY (SEP)										
MN	0.000	1.523	1.523	1.786							
MX	30.066	1.523									
SM	3427.570	712.858	712.858	836.035							
AV	7.324	1.523	1.523	1.786							
MONTHLY	SUMMARY (OCT)										
MN	0.000	1.523	1.523 1.523	1.786							
MX	30.066										
	3066.773		767.693	900.346							
AV	6.085	1.523	1.523	1.786							
	SUMMARY (NOV)										
MN	0.000		1.523								
MX	30.066	1.523	1.523	1.786							
SM		731.136	731.136								
AV	3.696	1.523	1.523	1.786							
	SUMMARY (DEC)										
MIN	0.000		1.523								
MX	30.066	1.523	1.523	1.786							
SM	1292.855	749.415	749.415								
AV	2.628	1.523	1.523	1.786							
	SUMMARY										
MN	0.000	1.523									
MX	30.066	1.523	1.523								
SM	35959.418	87 37 .077									
AV	6.269	1.523	1.523	1.786							

	DING, P		4130.05 P	C. MONMOUTH -	MYER CENTER, NJ	PTMOACO - SIM MCA	14:53: H20 ONLY W/OA SCHI	: 7 SDL
RS_2		OURLY-REPORT						PAGE
MMDDHH	SSZF2MID		SSZF4MID	OSMCAHUS ZR				
	SUPPLY	SUPPLY	SUPPLY	SUPPLY				
	BLECTRIC	BLECTRIC	BLECTRIC	BLECTRIC				
	KW	KW	KW	KW				
	(49)	(49)	(49)	(49)				
MONTHLY	SUMMARY (JA	N)						
MIN	0.000	0.000		0.000				
MX	23.912	29.253	29.469	17.562				
SM	2702.056	3539.614		737.587				
AV	5.492	7.194	8.984	1.499				
	SUMMARY (PE							
	0.000		0.000	0.000				
MX	23.912	29.253	29.469	17.562				
SM	2343.376	3071.565	3123.672	667.341				
AV	5.278	6.918	7.035	1.503				
MONTHLY	SUMMARY (MA							
MN	0.000	0.000	0.000	0.000				
MX	23.912	29.253	29.469	17.562				
SM	2725.968	3539.613	2445.894	807.833				
AV	5.825	7.563	5.226	1.726				
MONTHLY	SUMMARY (AP	0.000 29.253						
MN	0.000	0.000	0.000 29.469	0.000				
MX	23.912	29.253	29.469					
SM.	4423.720	5558.070	4037.198					
AV	9.452	11.876	8.626	4.803				
	SUMMARY (MA							
MIN	0.000 23.912		0.000	0.000				
MX SM	23.912 5547.584			17.562				
AV	11.276		7131.401 14.495	3652.813 7.424				
MONTHLY	SUMMARY (JU	N)						
	0.000	•	0.000	0.000				
MX	23.912			17.562				
SM		4153.927	7042.997	3266.458				
AV	7.394		15.445	7.163				
	SUMMARY (JU							
MIN	0.000	0.000	0.000	0.000				
MX	23.912		29.469	17.562				
SM	4232.424	5177.781	8015.459	4302.592				
AV	8.398	10.273	15.904	8.537				

RRAI		eng ine	ERING 19603	#2DOE - ELI 4130.05 FT.	MONMOUTH -	DEAETO SWENT	INC	D	OB-2.	1D	6/26	/1996	14	:53:	7 SDL	RU	N I
S_2			LY-REPORT	4130.03 21.	. MONHOUTH -	MIER CENTER,	UN	PIMOACO	- 51	M MC	1 H20	ONLY	W/OA	SCHDI	PAGE	2-	:
	SSZF2MII)	SSFZ3MID	SSZF4MID	0SMCAHUS ZR						••••		•••••				
	SUPPLY ELECTRIC KW	2	SUPPLY BLECTRIC KW	SUPPLY BLBCTRIC KW	SUPPLY BLECTRIC KW												
	(49)	•	(49)	(49)	(49)												
MONTHLY	SUMMARY	(AUG)															
MIN	0.0	000	0.000	0.000	0.000												
MIX	23.9	12	29.253	29.469	17.562												
SM	3610.7	712	4417.204	7101.933	3810.868												
AV	7.7	715	9.438	15.175	8.143												
MONTHLY	SUMMARY	(SEP)															
MN	0.0	000	0.000	0.000	0.000												
MX	23.9	12	29.253	29.469	17.562												
SM	3419.4	16	4212.433		2950.349												
AV	7.3	306	9.001	13.916	6.304												
MONTHLY	SUMMARY ((OCT)															
MN	0.0		0.000	0.000	0.000												
MX	23.9		29.253	29.469	17.562												
SM	4495.4		5558.070														
AV	8.9		11.028	7.718	5.749												
MONTHLY	SUMMARY ((NOV)															
MN	0.0		0.000	0.000	0.000												
MX	23.9		29.253	29.469	17.562												
SM	3610.7		4592.721	2652.175	1229.312												
AV	7.5		9.568	5.525	2.561												
MONTHLY	SUMMARY ((DEC)															
MN	0.0		0.000	0.000	0.000												
MX	23.9		29.253	29.469	17.562												
SM	2654.2		3481.108	3477.295	913.203												
AV	5.3		7.075	7.068	1.856												
YEARLY S	UMMARY																
MN	0.0	000	0.000	0.000	0.000												
MX	23.9		29.253	29.469	17.562												
SM	43137.2		54118.059	59850.734	27483.906												

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_3 = HOURLY-REPORT PAGE 1- 1

	RADING,	PA	4130	
RS_3		- HOURL	Y-REPORT	
MMDDHH	1EXTPER	1EXTPER	1 INTPER	1 INTPER
	THERMOST	ZONE	THERMOST	ZONR
	SETPOINT	TEMP	THERMOST SETPOINT	TRMP
	P	P	P	P
		•	•	•
	(7)	(6)	(7)	(6)
MONTHI	Y SUMMARY	(JAN)		
MIN	-999.0	69.8	-999.0	69.9
MX	75.0	77.6	75.0	77. 7

AV	-907.5	74.9	-907.5	74.6
MONTHI	Y SUMMARY	(FEB)		
MN	-999.0 75.0	72.6	-999.0 75.0	70. 7
MX	75.0	78.5	75.0	77.6
SM	******	33718.5	******	33416.2
AV	-907.2	75.9	-907.2	75.3
MONTHI	Y SUMMARY	(MAR)		
	-999.0		-999.0	73.9
SM	******	35946.3	75.0	35817.9
AV			-893.4	
MONTHI	Y SUMMARY	(APR)		
			-999.0	74.2
MX	80 B	84 7	80.0	84.4
SM	*******	36979.7	******	36921.3
	-711.3		-711.3	
MONTHI	Y SUMMARY	(MAY)		
			-999 0	75 1
MX	80.0	96.1	-999.0 80.0	96.0
SM	******	39403.2	******	39635.2
AV	-567.4	80.1	-567.4	
MONTHI	Y SUMMARY	(JUN)		
MIN	-999.0	74.9	-999.0	75.5
MX	80.0	82.5	80.0	83.0
SM	80.0	36183.0	80.0	36470.4
	-665.8		-665.8	80.0
MONTHL	Y SUMMARY	(JUL)		
MN	-999.0	75.1	-999.0	75.9
MX	-99 9.0 80.0	82.7	80.0	83.0

AV	-646.2	79.8	-646.2	80.3

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1
RS_3 = HOURLY-REPORT PAGE 2- 1

RI	ADING,	PA	4130	
	,		Y-REPORT	4230
_				
			1 INTPER	
	THERMOST	ZONE	THERMOST	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	P	P	F	P
	(7)	(6)	(7)	(6)
MONTHI	Y SUMMARY	(AUG)		
MIN	-999.0	74.9	-999.0	75. 5
MX	80.0	82.6	80.0	82.4
SM	******	37206.3	******	37386.3
AV	-713.6	79.5	-713.6	79.9
MONTHL	Y SUMMARY	(SEP)		
MN	-999.0	74.8	-999.0	74.9
MX	80.D	82.2	ี สกก	81 Q
SM	******	37055.3	******	37081.8
AV	-736.6	79.2	-736.6	79.2
MONTHI	Y SUMMARY	(OCT)		
MIN	-999.0	74.5	-999.0 80.0	74.1
SM	******	39951.6	******	39707.9
	-781.0		-781. 7	
MONTHL	Y SUMMARY	(NOV)		
MIN	-999.0	74.1	-999.0	74.0
MX	80.0	83.0	80.0	83.6
SM	******	37224.9	******	37056.3
AV	-866.8	77.6	-866.8	77.2
	Y SUMMARY			
MN	-999.0	72.7	-999.0 75.0	71.6
MX	80.0	81.0	75.0	79.5
SM	******	37427.9	******	37338.4
AV	-905.2	76.1	-905.2	75.9
	SUMMARY			
MN	-999.0	69.8	-999.0	69.9
MX	80.0	96.1	80.0	96.0
	******	448170.7	******	448017.5
AV	-774.5	78.1	-774.6	78.1

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_4 = HOURLY-REPORT PAGE 1- 1

RS_4		- HOURL	Y-REPORT			
	2EXTPER			2INTPBR		 •••••
	THERMOST	ZONE	THERMOST SETPOINT	ZONE		
	SETPOINT	TEMP	SETPOINT	TEMP		
	P	P	P	P		
	(7)	(6)	(7)	(6)		
MONTH	LY SUMMARY					
MIN	72.0	72.2	72.0	72.2		
MX	75.0	75.S	75.0	75.6		
	35445.0					
AV	72.0	72.8	72.1	72.8		
	LY SUMMARY					
MN	72.0	72.2	72.0	72.2		
MX			75.0			
	32001.0					
AV	72.1	72.8	72.2	72.9		
	LY SUMMARY					
MN			72.0			
MX						
	33906.0					
AV	72.4	73.3	72.5	73.5		
	LY SUMMARY					
MN		72.7		72.7		
MX			75.0			
	34662.0					
AV	74.1	80.3	74.1	81.0		
	LY SUMMARY				,	
MN	72.0	67.8	72.0	67.9		
MX	75.0	102.3	75.0	103.7		
	36561.0					
AV	74.3	79.6	74.3	80.1		
	LY SUMMARY					
MN	72.0	73.5	72.0	73.5		
	75.0					
	34161.0					
AV	74.9	74.4	74.9	74.4		
	LY SUMMARY					
MN	72.0 75.0	73.8	72.0	73.9		
				73.0		
	37794.0					
AV	75.0	74.4	75.0	74.4		

ENTECH ENGINEBRING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
US_4 = HOURLY-REPORT
PAGE 2- 1

- HOURLY-REPORT 2EXTPER 2EXTPER 2INTPER 2INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP F ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) 72.8 74.9 72.0 75.0 MN 72.0 72.8 75.0 75.0 SM 35019.0 34776.7 35034.0 34791.4 ΑV 74.8 74.3 MONTHLY SUMMARY (SEP) 72.u 75.0 MN 72.0 71.6 MX 75.0 74.6 75.0 74.7 SM 34944.0 34693.5 34968.0 34718.0 74.1 74.7 MONTHLY SUMMARY (OCT) 72.0 67.5 75.0 89.9 72.0 75.0 68.5 MX SM 37191.0 38152.6 37338.0 38527.4 AV 73.8 74.1 75.**7** 76.4 MONTHLY SUMMARY (NOV) 72.0 72.6 72.0 75.0 72.6 MX 75.0 90.0 90.7 SM 35124.0 36187.5 35172.0 36425.4 73.2 73.3 75.9 MONTHLY SUMMARY (DEC) 72.0 75.0 72.0 72.5 79.3 мх 75.0 80.5 SM 35547.0 35932.1 35568.0 35995.9 AV 72.3 73.0 72.3 73.2 YEARLY SUMMARY 72.0 72.0 67.9 75.0 103.7 MN 67.5 102.3 75.0 SM 422355.0 430347.5 422739.0 431839.3 AV 73.6 75.0 73.7 75.3 73.6

ENTECH ENGINEERING BEZOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

RS_5 = HOURLY-REPORT PAGE 1- 1

RI	PADING,	PA	19603	4130
RS_5			Y-REPORT	
MMDDuu		12VTDD0	3 INTPER	3710000
· · · · · · · · · · · · · · · · · · ·	JEATLER	JEVILOK	JINIPER	JINIPER
	THERMOST	ZONE	THERMOST SETPOINT P	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	P	F	P	P
	(7)	(6)	(7)	(6)
MONTHI	Y SUMMAR	(JAN)		
MN	72.0	72.2	72.0 75.0	72.2
MX	75.0	75.5	75.0	75.6
SM	35445.0	35818.2	75.0 35472.0	35835.6
AV	72.0	72.8	72.1	72.8
MONTH	Y SUMMAR	(FEB)		
MN	72.0	72.2	72.0	72.2
MX	75.0	75.1	75.0	72.2 76.0 32376.2
SM	32001.0	32337.8	32046.0	32376.2
AV	72.1	72.8	72.0 75.0 32046.0 72.2	72.9
монтн	Y SUMMAR	(MAR)	72.0 75.0 33942.0	
MN	72.0	72.5	72.0	72.5
MX	75.0	79.9	75.0	80.8
SM	33906.0	34308.3	33942.0	34389.8
AV	72.4	73.3	72.5	73.5
MONTH	Y SUMMAR	Y (APR)		
MN	72.0	72.7	72.0 75.0 34665.0	72.7
MX	75.0	96.9	75.0	98.5
SM	34662.0	37561.8	34665.0	37913.2
AV	74.1	80.3	74.1	81.0
MONTH	Y SUMMAR	Y (MAY)		
MOV	72.0	67.8	72.0 75.0 36573.0	67.9
MX	75.0	102.3	75.0	103.7
SM	36561.0	39161.9	36573.0	39429.4
AV	74.3	79.6	74.3	80.1
MONTH	LY SUMMAR	(JUN)		
MN	72.0	73.5	72.0	73.5
MX	75.0	75.0	72.0 75.0 34167.0	75.1
SM	34161.0	33906.2	34167.0	33916.4
AV	74.9	74.4	74.9	74.4
MONTH	LY SUMMAR	(JUL)		
MIN	72.0	73.8	72.0	73.9
MX	75.0	75.0	72.0 75.0 37794.0	75.0
SM	37794.0	37510.9	37794.0	37520.6
AV	75. 0	74.4	75.0	74.4

RS_S	ENTECH EADING,	PA	RING 1 96 03 Y-REPORT	821 41	008 - 30.05	ELITE PT. MC	SOFTWAR ONMOUTH	B DE	VELOPMEI	T INC	PTMOAC	D OB 0 -	-2.1 SIM	D MCA	6/26 H20	/1996 ONLY	W/OA	:53: SCHD1	7 SDI	
			3 INTPER			••														
	JARTEBA	JONAFOR	JINIPER	JINIPER																
	THERMOST		THERMOST																	
	SETPOINT																			
	F	Į.	F	F																
	(7)	(6)	(7)	(6)																
MONTH	LY SUMMARY	(AUG)																		
MN	72.0	72.8	72.0	72.8																
MX	75.0	74.9																		
SM	35019.0	34776.7	35034.0	34791.4																
AV	74.8	74.3	74.9	74.3																
MONTH	LY SUMMARY	(SED)																		
MN		71.6	72.0	72.0																
MX	+	74.6																		
SM			34968.0																	
AV																				
MONTH	LY SUMMARY	(OCT)																		
MIN			72.0	68.5																
MX	75.0	89.9	75.0																	
SM	37191.0	38152.5	37338.0	38527.4																
AV	73.8	75.7	74.1	76.4																
MONTH	LY SUMMARY	(NOV)																		
MIN	72.0	72.6	72.0	72.6																
MX	75.0	90.0	75.0	90.7																
SM	35124.0	36187.2	35172.0	36425.4																
AV	73.2	75.4	73.3	75.9																
MONTH	LY SUMMARY	(DEC)																		
MN	72.0	72.5	72.0	72.5																
MX		79.3																		
	35547.0																			
AV	72.3	73.0	72.3	73.2																
YEARL	SUMMARY																			
MN	72.0	67.5	72.0	67.9																
MX	75.0	102.3	75.0	103.7																
	422355.0		422739.0	431839.3																
AV	73.6	75.0	73. 7	75.3																

	DAM-DATE	CASTAGO	D F.110	-							4										
RE	EADING,	PA	19603	413	08 - 0.05	FT.	MONMOU.	NARE TH -	DEVELOPMENT	I INC	PTMOACO	O E- 2	:.1D SIM M	6/ CAN	26/1: 120 O	996 NLY	14 W/OA	:53: SCHD1	7 SDI	RU	N 1
RS_6		- HOURL	Y-REPORT																PAGE	1-	. 1
MMODHH	4EXTPER	4EXTPER	4 INTPER	4 INTPER																	
			THERMOST																		
			F																		
		•	•	•																	
	(7)	(6)	(7)	(6)																	
	Y SUMMAR																				
	72.0	72.1	72.0	72.2																	
MX			72.0																		
			35424.0																		
AV	72.0	72.7	72.0	72. 7																	
	Y SUMMAR																				
			72.0																		
			72.0																		
			31968.0																		
AV	72.0	72.7	72.0	72. 7																	
MONTHI	Y SUMMAR	(MAR)																			
MIN	72.0	72.5	72.0	72.5																	
MIX	75.0	76.8	75.0	77.3																	
			33753.0																		
AV	72.1	72.9	72.1	72.9																	
MONTHI	Y SUMMAR	(APR)																			
			72.0	72.6																	
MX	75.0	90.4	75.0	91.4																	
			34461.0																		
AV	73.6	76.4	73.6	76.8																	
MONTHI	Y SUMMAR	(MAY)																			
MN	72.0	64.0	72.0	64.3																	
MX	75.0	98.4	75.0	99.5																	
			36384.0																		
AV	73.9	76.6	74.0	76.9																	
	Y SUMMARY																				
			72.0																		
			75.0																		
			34050.0																		
AV	74.6	74.2	74.7	74.3																	
	Y SUMMAR																				
			72.0																		
			75.0																		
			37770.0																		
AV	/4.9	74.4	74.9	74.4																	

RS_6		- HOURL	Y-REPORT	BZD0 4130						6/26/1 H20 O	996 NLY	14 W/OA	:53: SCHD1	7 SD	
	4EXTPER	4EXTPER	4 INTPER	4 INTPER	 	 	 	 	••••						•
	THERMOST		THERMOST												
			SETPOINT												
	F	F	P	P											
	(7)	(6)	(7)	(6)											
MONTH	LY SUMMARY	(AUG)													
MN			72.0	71.4											
MX	75.0														
SM	34881.0	34701.0	34905.0												
AV	74.5	74.1	74.6	74.2											
MONTH	LY SUMMARY	(SRP)													
MN			72.0	69. 9											
MX															
SM			34698.0												
AV															
MONTE	LY SUMMARY	((OCT)													
MIN			72.0	67 5											
MX															
SM			36882.0												
AV			73.2												
момти	LY SUMMARY	(NOV)													
MN		72.6	72 0	72.5											
MX															
SM			34764.0												
AV		73.6		73.7											
MONTH	LY SUMMARY	(DEC)													
MN		72.5	72.0	72.5											
MX	75.0	76.0													
SM	35448.0	35790.5	35460.0	35803.4											
AV	72.0	72.7	72.1	72.8											
YEARL	SUMMARY														
MIN	72.0	62.5	72.0	63.5											
MX	75.0	98.4													
			420519.0												
AV	73.3	73.9	73.3	74.1											

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT 19603 MMDDHH 2MIDL 2MIDL 3MIDL 3MIDL THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP P ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) MN -999.0 74.7 -999.0 MX 80.0 81.2 80.0 74.8 81.2 SM ******* 38946.3 ****** 38976.9 AV -751.6 79.2 -734.1 MONTHLY SUMMARY (FEB) MN -999.0 74.9 -999.0 74.9 MX 80.0 81.2 80.0 81.2 SM ******* 35156.7 ******* 35181.8 AV -761.5 79.2 -744.4 MONTHLY SUMMARY (MAR) NTHLY SUMMARY (MAR)

MN -999.0 74.9 -999.0 75.0

MX 80.0 81.6 80.0 81.6

SM ******** 37064.1 ******** 37082.3

AV -736.7 79.2 -720.5 79.2 MONTHLY SUMMARY (APR) MN -999.0 75.1 -999.0 75.1 MX 80.0 85.7 80.0 85.7 SM ******* 37451.0 ******* 37460.7 AV -572.9 80.0 -561.4 80.0 MONTHLY SUMMARY (MAY) MN -999.0 75.1 -999.0 75.2 MX 80.0 97.1 80.0 97.1 SM ******* 39786.8 ******* 39796.0

AV -490.6

MONTHLY SUMMARY (JUN)

MONTHLY SUMMARY (JUL)

80.9 -488.4

MN 999.0 75.3 -999.0 75.3 MX 80.0 82.0 80.0 82.0 SM ******* 36459.3 ******* 36458.3 AV -665.8 80.0 -663.5 80.0

MTHLY SUMMARY (ULL)

MN -999.0 75.4 -999.0 75.4

MX 80.0 82.2 80.0 82.1

SH ******* 40401.7 ******* 40399.1

AV -620.5 80.2 -620.5 80.2

80.9

75.3

75.4 82.1 14:53: 7 SDL RUN 1

PAGE 1- 1

LS_7		- HOURL	RING 19603 Y-REPORT										PAGE	
	2MIDL	2MIDL	BMIDL	3MIDL		 	•••••	 						
	THERMOST		THERMOST	ZONE										
	SETPOINT		SETPOINT											
	P	P	P	P										
	(7)	(6)	(7)	(6)									
MONTH	LY SUMMARY	(AUG)												
MN			-999.0	75	. 3									
MX					.0									

AV			-651.4		. 0									
		. (===)												
MONTH	LY SUMMARY				_									
			-999.0											
MX			80.0											

AV	-669.8	79.8	-667.4	79	. 8									
MONTH	LY SUMMARY	(OCT)												
MN			-999.0	75	1									
MX		83.8												

	-596.9													
MONTH	LY SUMMARY	(NOV)												
	-999.0		-999.0	25	0									
	80.0													

	-660.0		-646.5											
MONTH	LY SUMMARY	ר (מפרי)												
MN			-999.0	7.4										
MX		81.4			. 4									

	-756.0		-738.4											
	. 3010	,,,,	.30.4	,,										
	Y SUMMARY													
	-999.0		-999.0		. 8									
MX			80.0		.1									
	*******				. 3									
AV	-660.1	79.8	-651.4	79	. 8									

ENTECH READING,	ENGINEE PA	RING 19603	EZDOE 4130.0	- ELI 5 FT.	TE SOF	TWARE	DEVE	CENTER	INC R, NJ	FTM	DO DACO	8-2 - Si	. 1D IM MC	6/ CAH	26/1: 20 O	996 NLY	14 W/OA	: 53 : SCHD1	7 SE	LR	UN I	L
RS_8	- HOURL																		PANA			
MMDDHH 4MIDL	4MIDL	0INTEXTP ER	OINTEXTP ER																			
		THERMOST	ZONE																			
		SETPOINT																				
P	P	P	P																			
(7)	(6)	(7)	(6)																			
MONTHLY SUMMAR	Y (JAN)																					
MN -999.0		-999.0	69.6																			
MX 72.0																						
SM *******																						
AV -672.5	72.1	-907.6	73.8																			
MONTHLY SUMMAR	Y (FEB)																					
MN -999.0		-999.0	69 7																			
MX 75.0		75.0																				
SM ******																						
AV -743.3		-907.3																				
MONTHLY SUMMAR	Y (MAR)																					
MN -999.0	70.4	-999.0	72.9																			
MX 75.0																						
SM *******	34170.5	******	35655.5																			
AV -809.0	73.0	-893.5	76.2																			
MONTHLY SUMMAR	Y (APR)																					
MN -999.0			74 1																			
MX 75.0		80.0																				
SM *******																						
AV -684.7																						
MONTHLY SUMMARY	Y (MAY)																					
MN -999.0		-999.0	74.5																			
MX 75.0		80.0																				
SM *******																						
AV -470.7																						
MONTHLY SUMMARY	(JUN)																					
MON -999.0		-999.0	74.9																			
MOX 75.0		80.0																				
SM ******																						
AV -436.1	76.0	-559.4	80.5																			
MONTHLY SUMMARY																						
MIN -999.0		-999.0	75.1																			
MX 75.0		80.0																				
SM *******																						
AV -419.4	76.2	-474.9	81.0																			

RI S_8		PA	RING 19603 Y-REPORT	4	ZDOR - 130.05	ELI:	TE SOF	TWARE	MYER DEVEL	CENTE	r inc R, NJ	FTMOAC	DOE-	2.1D SIM MC	6/26 A H20	/1996 ONLY	14 W/OA	:53: 1 SCHD1			
	4MIDL		OINTEXTP																PAGE	2-	
	**********	111200	ER	ER																	
	THERMOST	ZONE	THERMOST																		
	SETPOINT	TEMP	SETPOINT																		
			F																		
	(7)	(6)	(7)	(6)																
монтні	LY SUMMARY	(AUG)																			
MIN	-999.0	74.3	-999.0	75.	0																
MX	75.0		80.0																		
SM	******																				
AV			-499.2																		
номтні	LY SUMMARY	(SEP)																			
MIN			-999.0	74	R																
MX	75.0	78.8																			
SM	******	35388.4																			
	-491.8																				
MONTHI	LY SUMMARY	(OCT)																			
MIN	-999.0	71.5	-999.0	74.	5																
MX	75.0	80.1																			
SM	******	37973.8	******	40213.	3																
AV	-717.8	75.3	-646.2	79.	8																
иомтні	Y SUMMARY	(NOV)																			
MIN	-999.0	70.4	-999.0	73.	0																
	75.0	80.3																			
	******				3																
AV	-798.0	73.5	-842.1	77.	9																
	Y SUMMARY	(DEC)																			
MIN			-999.0	71.	9																
MX		76.3																			
	******				3																
AV	-742.1	72.6	-885.6	75.	3																
	SUMMARY																				
	-999.0		-999.0		6																
MX			80.0																		
	******				8																
AV	-619.0	74.5	-705.1	78.	4																

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

BQUIPMENT	NUMBER SIZE INSTD (MBTU/H) AVAIL					
HW-BOILER	4.101 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA HZO ONLY W/OA SCHD1 ENTECH ENGINEERING READING, PA 19603 4130
REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

BOUIPMENT			н	ours a	T PERC	ENT P	ART LO	AD RAT	rio			TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	USED	THERMAL USED
-	0 10	20	30	40	50	6	0 7	0 E	90 9	0 1	00 - 110+		(MB10)	(MB10)	(MBTU)	(MBTU)
HW-BOILER	2827 2827	616 616	634 634	478 478	311 311	139 139	41	28 28	9	4 4	1	5088	3096.9	0.0	202.4	4504.8
HERM-CENT-CHLR	1286	825	408	207	244	352	266	81	3	0	0	3672	8366.2	0.0	1972.7	0.0
	1286	825	408	207	244	352	266	81	3	0	0					
COOLING-TWR	1660 1660	651 651	227 227	116 116	89 89	77 77	68 68	102	125 125	115	442	3672	10338.9	0.0	807.7	0.0

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

- NOTES TO TABLE

 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
 - 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3096.9	100.0

LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	
COOLING LOADS	MARKET OVER THE	
COOLING LOADS	WHIT SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8366.2	100.0
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	
BLECTRICAL LOADS	METU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	21337.4	100.0
	***************************************	***************************************
LOAD SATISFIED	21337.4	100.0
TOTAL LOAD ON PLANT	21337.3	200.0

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 86.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	0
ELECTRICAL LOADS	21337.3	21337.4	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

вопіьмвит	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.148	4.101	2 20 3	4.101 5088		•••••		
HERM-CENT-CHLR	0.292	7.613	6 13 15	7.800 3672				
COOLING-TWR	0.296	9.214	6 13 15	2.379 14688				

ENTECH ENGINEERING BZDO8 - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEFS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE METU -	BLECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	202.45	4504.78
SPACE COOL	2780.41	0.00
HVAC AUX	3574.63	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.50	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
TOTAL	21337.36	4504.78

 TOTAL SITE ENERGY
 25842.22 MBTU
 78.4 KBTU/SQFT-YR GROSS-AREA
 78.4 K

 TOTAL SOURCE ENERGY
 68581.08 MBTU
 208.1 KBTU/SQFT-YR GROSS-AREA
 208.1 KBTU/SQFT-YR GROSS-AREA

78.4 KBTU/SQFT-YR NET-AREA 208.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:53: 7 PDL RUN 1 READING, 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHOl PA - HOURLY-REPORT RP_1 PAGE 1- 1 HHODHH HERM-CEN HERM-CEN HERM-CEN HERM-CEN COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR BLECTRIC LOAD ENTERING LEAVING WATER RANGE PAN PIMP USE COND TEM COLD TEM FLOWRATE BLEC BLBC BTU/HR BTU/HR P GAL/MIN R BTU/HR BTU/HR ----(1) ----(3) ----(12) ----(13) ---(8) ---- (10) ---- (20) ---- (21) MONTHLY SUMMARY (JAN) 0. 0.0 0.0 0. 0.0 0.0 ο. Ō. ΜX 0.0 0.0 0.0 0.0 ٥. 0. SM 0. 0. 0.0 0.0 0.0 0.0 ٥. AV 0. 0 0.0 0.0 0.0 0.0 MONTHLY SUMMARY (FEB) MN ٥. 0. 0.0 0.0 0.0 0.0 ο. 0. MX ο. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0. 0. 0.0 0.0 0. α. AV 0.0 0. 0. MONTHLY SUMMARY (MAR) 0. Ο. 0.0 0.0 0.0 0.0 0. 0. MY ο. ٥. 0.0 0.0 0.0 0.0 0. ٥. SM 0. 0. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. ο. MONTHLY SUMMARY (APR) 0. ٥. 0.0 0.0 0.0 0.0 0. n. MX Ο. 0. 0.0 0.0 0.0 0.0 ٥. D. SM 0. 0. 0.0 0.0 0.0 0.0 ٥. 0. 0.0 0.0 0.0 0.0 ٥. 0. MONTHLY SUMMARY (MAY) 0. 0. 0.0 0.0 0.0 0.0 ο. n 4487600. 838479. 77.3 55.3 1950.0 5.5 140410. 90465. 22797268. SM 169750432. 65228444. 16614.1 13603.2 491400.0 261.8 28844272. AV 345021. 132578. 33.8 27.6 998.8 0.5 58627. 46336. MONTHLY SUMMARY (JUN) 316498. 149259. 65.0 53.9 1950.0 0.6 106748 90465 852782. 179042656. 80.0 31407.7 MY 4448608 55.3 1950.0 5.5 140410. 90465. SM 24709.3 581556736. 889200.1 817.5 58399344. 41252200. ΑV 1275344. 392637. 68.9 54.2 1950.0 1.8 128069. 90465. MONTHLY SUMMARY (JUL) 316498. 149259. 53.9 1950.0 0.6 113014. 90465. ΜX 4115743. 783141. 79.6 55.2 1950.0 5.1 140410. 90465. SM 783858752. 223227600. 35653.1 27358 6 982800 1 1074.1 66740936. 45594536. 442912. 1555275. 70.7 54.3 1950.0 2.1 132422. 90465

	HBRM-CEN	HERM-CEN	HERM-CEN	HERM-CEN	COOLING-	COOLING-	COOLING-	COOLING-	
	T-CHLR	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	
	LOAD	ELECTRIC	ENTERING		WATER	RANGE	PAN	PUMP	
		USB	COND TEM	COLD TEM	FLOWRATE		BLEC	BLEC	
	BTU/HR	BTU/HR	P	P	GAL/MIN	R		BTU/HR	
	(1)	(3)	(12)	(13)	(8)	(10)	(20)	(21)	
MONTHLY	SUMMARY (AUG)								
MN	316498.	149259.	64.9	53.9	1950.0	0.6	107897.	90465.	
MX	316498. 4499745.	878697.	83.6	55.3	1950.0	5.6	140410.	90465	
SM	598733184.	186173856.	33142.3	25360.1	912600.1	843.4	60455884.	42337780	
AV	1279344.	397807.	70.8	54.2	1950.0	1.8	129179.	90465.	
MONTHLY	SUMMARY (SEP)								
MIN	316498.	149259.	65.0	53.9	1950.0	0.6	106748.	90465.	
MX	316498. 3866649.	757026.	78.0	55.1	1950.0	4.8	140410.	90465.	
SM	3866649. 416302656.	150314016.	32075.6	25297.6	912600.1	619.7	57864784.	42337784	
AV	889536.	321184.	68.5	54.1	1950.0	1.3	123643.	90465.	
MONTHLY	SUMMARY (OCT)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MX	2677554.	567950.	70.1	54.7	1950.0	3.4	140410.	90465.	
SM	111269232.	48921036.	16451.1	13583.1	491400.0	185.2	28117416.	22797272	
AV	2677554. 111269232. 220772.	97066.	32.6	27.0	975.0	0.4	55789.	45233.	
MONTHLY	SUMMARY (NOV)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MX	0.	0.	0.0	0.0	0.0 0.0 0.0	0.0	0.	O.	
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV	0.	0. 0. 0.	0.0	0.0	0.0	0.0	0.	0.	
	SUMMARY (DEC)								
MN	0.	0.	0.0	0.0			0.	0.	
MX	0.		0.0	0.0			0.	0.	
SM	0.			0.0			0.	0.	
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
	SUMMARY								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
	4499745.	878697.	83.6	55.3	1950.0	5.6	140410. 300422624.	90465.	
SM		852907584.	165343.9	129911.9	4680000.5	3801.9	300422624.	217116832.	
AV	463994.	148694.	28.8	22.6	815.9	0.7	52375.	37852.	

REA RP_2	ENTECH ENGIN DING, PA - HOU			TE SOPTWARE DEVELOPMENT INC MONMOUTH - MYER CENTER, NJ		/26/1996 14:53: H20 ONLY W/OA SCHD:	7 PDL L PAGE	
MMODHH	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE	***************************************			
	LOAD	R BLECTRIC USE	R FURL USR	R CAPACITY RUNNING				
	BTU/HR	BTU/HR	BTU/HR	BTU/HR				
	(1)	(3)	(4)	(7)				
MONTHLY	SUMMARY (JAN)							
MIN	149887.	13190.	235139.	4100792.				
MX	3799679.							
SM			959069696.					
AV	1380656.		1949329.					
MONTHLY	SUMMARY (FEB)							
MIN	13589.		21318.	4100792.				
MX	4100792.	90217.						
SM				1820750976.				
AV	1328936.		1869582.	4100791.				
MONTHLY	SUMMARY (MAR)							
MIN	13589.		21318.	4100792.				
MX	2232132.	90217.						
SM			586235520.					
AV	838225.		1252640.					
MONTHLY	SUMMARY (APR)							
MIN	13589.	1196.	21318.	4100792.				
MX				4100792.				
SM	122128672.	9965951.	187781088.	1919170304.				
AV	260959.	21295.	401242.	4100791.				
	SUMMARY (MAY)							
MIN		0.	0.	0.				
MX				4100792.				
	13872808.	1220807.	22,03304.	984189952.				
AV	28197.	2481.	44234.	2000386.				
	SUMMARY (JUN)							
MIN	0.		0.	0.				
MX	0.	0.	0.	0.				
SM	0.		0.	0.				
AV	0.	0.	0.	0.				
	SUMMARY (JUL)		_	-				
MIN	0.		0.	0.				
MX	0.		0.	0.				
SM	0.		0.	٥.				
AV	0.	0.	0.	0.				

	DING,	PA	ERING 19603	EZDOB - EL: 4130.05 FT	TE SOFTWARE . MONMOUTH -	DEVELOPMENT MYER CENTER,	INC	PTMOAC0	08-2.1D - SIM M	6/26/1 CA H20 O	996 NLY W	14:53: /OA SCHO	1	
P_2		- HOUR	LY-REPORT										PAGE	2-
	HW-BOII	LB												
	R		R	R	R									
	LOAD		USB	HW-BOILE R FUBL USE	CAPACITY RUNNING									
	BTU/HR		BTU/HR	BTU/HR	BTU/HR									
	(1	1)	(3)	(4)	(7)									
MONTHLY	SUMMARY	(AUG)												
MN		0.	0.	0.		0.								
MX		0.				0.								
SM		0.	o.			0.								
AV		O.	õ.			0.								
MONTHI V	SUMMARY	(SED)												
MN		0.	0	0.		٥.								
MX		0.				0.								
SM		0.	0.			0.								
AV		0.	0.	0.		0.								
MONTHUE	SUMMARY	(0000)												
MONTHLY	SUMMARY	(OCT)				•								
MX	70/	U.	0.	0.		U.								
M.A.	790	4500	69532. 2027932.	1239547.	410079	2.								
AV	45	5724.	4024.	71730.	205039	6.								
	SUMMARY													
MDV	13	3589.	1196.	21318.	410079	2.								
MX	2289	9986.	90217.	3023764.	410079	12.								
SM	269184	4288.	20775456.	407937696.	196837977	6.								
AV	560	0801.	43282.	849870.	410079	1.								
	SUMMARY	(DEC)												
MIN	13	3589.	1196.	21318.	410079	12.								
MX	2651	1084.	90217.	3414244.	410079	2.								
SM	615147	7904.	90217. 37391884.	881645376.	201758899	2.								
AV	1250	0301.	76000.	1791962.	410079	1.								
YEARLY	SUMMARY													
MDN		0.	0.	0.		0.								
MX	4100	0792.	0. 90217.	4920951.	410079	2.								
SM			172069616.											
AV	471	1583.	29998.	681778.	238497	9.								

ENTECH ENGINEBRING BZDOB - BLITE SOFTWARE DEVELOPMENT INC

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- EV-B COST OF FUELS AND UTILITIES

ASSIGN-

CHARGE2

(U-NAME)

ENERGY UNIFORM COST MIN RATE FIXED FIXED

BNBRGY COST ESCLA-MNTHLY LIMIT MNTHLY MNTHLY ASSIGN-ASSIGN-SOURCE UNIT /UNIT ATION CHARGE /UNIT CHARG1 CHARG2 SCHEDULE (BTU) (\$) RATE (\$) (5) (\$) (\$) (U-NAME) (U-NAME) -----------BLECTRIC 3413.00 0.0000 5.000 0.00 1000000.000 0.00 0.00 YELEC1 FUEL-OIL 138690.00 0.5900 5.000 0.00 1000000.000 0.00 0.00

ENTECH ENGINEERING B2DOB - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:53: 7 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL

REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS BLECTRIC FUEL-OIL MONTH UNIT-UNIT-138690.00 3413.00 JAN ENERGY CONSUMPTION (UNIT/MO) 437963. 8353. PEAK DEMAND (UNIT/HR) 1457. 33. TOTAL COST (\$) 43972.25 4928.39 PER ENERGY CONSUMPTION (UNIT/MO) 393296. 6604. PEAK DEMAND (UNIT/HR) 1457. 35. TOTAL COST (\$) 40760.73 3896.21 MAR ENERGY CONSUMPTION (UNIT/MO) 455580. 4791. PEAK DEMAND (UNIT/HR) 1457. 21. TOTAL COST (\$) 45238.93 2826.42 APR ENERGY CONSUMPTION (UNIT/MO) 429387. 1519. PEAK DEMAND (UNIT/HR) 1449. TOTAL COST (S) 43288.15 896.48 ENERGY CONSUMPTION (UNIT/MO) 536732. 198. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1943. 55242.44 116.83 JUN ENERGY CONSUMPTION (UNIT/MO) 664362. ٥. PEAK DEMAND (UNIT/HR) 2022 ٥ TOTAL COST (\$) 70361.52 0.00 m. ENERGY CONSUMPTION (UNIT/MO) 666001 ٥. PEAK DEMAND (UNIT/HR) 2008. 0. TOTAL COST (\$) 70081.58 0.00 AUG ENERGY CONSUMPTION (UNIT/MO) 697341. ٥. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 72822.00 0.00 SEP ENERGY CONSUMPTION (UNIT/MO) 623481. Ο. PRAK DEMAND (UNIT/HR) 1951. ο. TOTAL COST (\$) 66476.63 0.00 OCT ENERGY CONSUMPTION (UNIT/MO) 496446. 310. PEAK DEMAND (UNIT/HR)
TOTAL COST (S) 1848. 51533.05 183.03 ENERGY CONSUMPTION (UNIT/MO) 414840. 3269. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1457. 22. 42309.72 1928.80 DEC ENERGY CONSUMPTION (UNIT/MO) 436376. 7437. PEAK DEMAND (UNIT/HR) 1457. 25. TOTAL COST (\$) 43858.15 4387.78 ENERGY CONSUMPTION (UNIT/YR) 6251806. 32481. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 2022. 645945.13 35. 19163.94

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/25/1996 14:53: 7 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MRASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN								
	4OFPKKWH	744	437963.	31489.53	1457.	1457.	0.00	
	BONPKDMHTG	252	298671.	0.00	1457.	1457.	12482.72	
PBB								43972.25
	4OFPKKWH	672	393296.	28278.01	1457.	1457.	0.00	
	BONPKDMHTG	228	269225.	0.00	1457.	1457.	12482.72	
			203223.	0.00	1437.	1437.	12402.72	40760.73
MAR								40700.73
	4OPPKKWH	744	455580.	32756.21	1457.	1457.	0.00	
	BONPKDMHTG	276	325452.	0.00	1457.	1457.	12482.72	
								45238.93
APR								
	4OFPKKWH	720	429387.	30872.93	1449.	1449.	0.00	
	BONPKDMHTG	252	296413.	0.00	1449.	1449.	12415.23	
MAY								43288.15
MAX	40PPKKWH	744	636733	20504 05				
	BONPKDMHTG	252	536732. 340085.	38591.05 0.00	1943.	1943.	0.00	
	BONFRENINIG	232	340085.	0.00	1943.	1943.	16651.39	55343 44
JUN								55242.44
	40FPKKWH	456	243672.	17520.00	1144.	1144.	0.00	
	EONPKDMCL	264	420690.	0.00	2022.	2022.	19144.21	
	BONPKKWH	264	420690.	33697.30	2022.	2022.	0.00	
								70361.52
JUL								
	40FPKKWH	504	277917.	19982.25	1123.	1123.	0.00	
	BONPKDMCL BONPKKWH	240	388083.	0.00	2008.	2008.	19013.84	
	BUNPKKWH	240	388083.	31085.49	2008.	2008.	0.00	
AUG								70081.58
	40PPKKWH	468	251131.	18056.33	1151.	1151.	0.00	
	BONPKDMCL	276	446210.	0.00	2009.	2009.	19024.27	
	BONPKKWH	276	446210.	35741.40	2009.	2009.	0.00	
								72822.00
SEP								
	40РРККWН	468	236900.	17033.13	1116.	1116.	0.00	
	BONPKDMCL	252	386581.	0.00	1951.	1951.	18478.37	
	BONPKKWH	252	386581.	30965.12	1951.	1951.	0.00	
OCT								66476.63
	40FPKKWH	744	496446.	35694.44	1848.	1848.	0.00	
	BONPKDMHTG	240	311527.	0.00	1848.	1848.	15838.62	
				0.00	2010.	1040,	13030.02	51533.05
VOV								3233.03
	40PPKKWH	720	414840.	29827.00	1457.	1457.	0.00	
	BONPKDMHTG	240	282675.	0.00	1457.	1457.	12482.72	
								42309.72

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

								CONTINUED
MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DBC								
	40FPKKWH	744	436376.	31375.43	1457.	1457.	0.00	
	BONPKDMHTG	252	298373.	0.00	1457.	1457.	12482.72	
								43858.15
	• •							
TOTAL			6251806.	462965.63			182979.52	645945.13

S_1	PA - HOUT	19603 RLY-REPORT	4430.03 F		CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PAGE 1-
MODHH	1SMCAHUS ZR	2SPERFC	3SPBRFC	4SPERFC	
	SUPPLY	SUPPLY	SUPPLY	SUPPLY	
	BLECTRIC	BLECTRIC	BLECTRIC	ELECTRIC	
	KW	KM	KW	KW	WCA Syrved
	(49)	(49)	(49)	(49)	Seralest 2
	SUMMARY (JAN)				C == 101 D
MIN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	7576.734	383.846	383.846	450.173	
AV	30.066	1.523	1.523	1.786	
MONTHLY	SUMMARY (FEB)				D. Jehr.)=
MN	30.066	1.523	1.523	1.786	12/1-1-1-1
MX	30.066	1.523	1.523	1.786	
SM	6855.140	347.290	347.290	407,299	
AV	30.066	1.523	1.523	1.786	
MONTH!					
	SUMMARY (MAR)				
MIN	30.066	1.523	1.523	1.786	
MX SM	30.066	1.523	1.523	1.786	
AV	8298.327	420.403	420.403	493.046 1.786	
AV	30.066	1.523	1.523	1.786	
	SUMMARY (APR)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	7576.734	383.846	383.846	450.173	
VA	30.066	1.523	1.523	1.786	
	SUMMARY (MAY)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM AV	7576.734	383.846	383.846	450.173	
AV	30.066	1.523	1.523	1.786	
	SUMMARY (JUN)				
MIN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	7937.531	402.125	402.125	471.610	
AV	30.066	1.523	1.523	1.786	
	SUMMARY (JUL)				
MIN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	7215.937	365.568	365.568	428.736	
AV	30.066	1.523	1.523	1.786	

	ENTECH ENGIN	19603			DEVELOPMENT IN MYER CENTER, N	E-2.1D SIM MC	6/26/1996 H20 ONLY	14:55:39 W/OA SCHD1	5
RS_1	= HOU	RLY-REPORT							P
	1SMCAHUS ZR	2SPERFC	3SPERPC	4SPERFC		 			
	SUPPLY	SUPPLY	SUPPLY	SUPPLY					
	BLECTRIC	BLECTRIC	ELECTRIC	BLECTRIC					
	KW	KW	KW	KW					
	(49)	(49)	(49)	(49)					
MONTHLY	SUMMARY (AUG)								
MN	30.066	1.523	1.523	1.786					
MX	30.066	1.523	1.523	1.786					
SM	8298.327	420.403	420.403	493.046					
AV	30.066	1.523	1.523	1.786					
MONTHLY	SUMMARY (SEP)								
MON	30.066	1.523	1.523	1.786					
MIX	30.066	1.523	1.523	1.786					
SM	7576.734	383.846	383.846	450.173					
AV	30.066	1.523	1.523	1.786					
MONTHLY	SUMMARY (OCT)								
MIN	30.066	1.523	1.523	1.786					
MX	30.066	1.523	1.523	1.786					
SM	7215.937	365.568	365.568	428.736					
AV	30.066	1.523	1.523	1.786					
MONTHLY	SUMMARY (NOV)								
MIN	30.066	1.523	1.523	1.786					
MX	30.066	1.523	1.523	1.786					
	7215.937	365.568	365.568	428.736					
AV	30.066	1.523	1.523	1.786					
MONTHLY	SUMMARY (DEC)								
MIN	30.066	1.523	1.523	1.786					
MX	30.066	1.523	1.523	1.786					
SM	7576.734	383.846	383.846	450.173					
AV	30.066	1.523	1.523	1.786					
YEARLY S	SUMMARY								
MN	30.066	1.523	1.523	1.786					
MX	30.066	1.523	1.523	1.786					
SM AV	90920.805 30.066	4606.157 1.523	4606.157 1.523	5402.074					

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 - HOURLY-REPORT RS_2 PAGE 1- 1 MMDDHH SSZF2MID SSFZ3MID SSZF4MID OSMCAHUS ZR SUPPLY SUPPLY SUPPLY SUPPLY ELECTRIC BLECTRIC BLECTRIC BLECTRIC KW KW ---- (49) ----(49) ---- (49) ---(49) MONTHLY SUMMARY (JAN) 23.912 MN 29.253 29.469 17.562 MX 23.912 29.253 29.469 17.562 4425.524 SM 6025.824 7371.756 7426.086 29.469 ΑV 23.912 29.253 17.562 MONTHLY SUMMARY (FEB) MIN 23.912 29.253 29.469 17.562 29.253 6669.684 MX 23.912 29.469 17.562 SM 5451.936 6718.840 4004.046 AV 29.469 17.562 MONTHLY SUMMARY (MAR) 29.253 29.469 17.562 MX 23.912 29.253 29.469 17.562 6599.711 8073.829 SM 8133.333 4847.002 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (APR) 23.912 MN 29.253 29.469 17.562 ΜX 23.912 29.469 17.562 7371,756 SM 6025.824 7426.086 4425.524 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (MAY) 23.912 29.253 29.469 17.562 MX 23.912 29.253 29.469 17.562

BZDOB - ELITE SOFTWARE DEVELOPMENT INC

ENTECH ENGINEERING

6025.824

23.912

23.912

23.912

5738.880

6312.768

MONTHLY SUMMARY (JUN) 23.912

MONTHLY SUMMARY (JUL)

SM

AV

MX

SM

MY

SM

ΑV

7371.756

29.253

29.253

29.253

29.253

7722.792

29.253 7020.720

7426.086

29.469

29.469

29.469

7779.709

29.469

29.469

29.469

29.469

7072.463

4425.524

17.562

17.562

4636.263

17.562

17.562

4214.785

17.562

17.562

PA

19603

READING.

DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1

EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOl DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 ENTECH ENGINEERING READING, 19603 PA - HOURLY-REPORT OSMCAHUS SSZF2MID SSFZ3MID SSZF4MID ZR SUPPLY SUPPLY SUPPLY SUPPLY BLECTRIC BLECTRIC ELECTRIC ELECTRIC KW KW KW KW ---- (49) ---- (49) ---- (49) ---- (49) MONTHLY SUMMARY (AUG) 17.562 29.469 29.253 MX 23.912 29.253 29.469 17.562 6599.711 SM 8073.829 8133.333 4847.002 AV 23.912 29.469 17.562 29.253 MONTHLY SUMMARY (SEP) 29.469 23.912 MN 29.253 17.562 23.912 29.253 29.469 17.562 SM 6025.824 7371.756 7426.086 4425.524 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (OCT) 23.912 23.912 MN 29.253 29.469 17.562 29.253 7020.720 29.469 7072.463 MX 17.562 5738.880 ΑV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (NOV) 17.562 MN 23.912 23.912 29.253 29.469 MX 29.469 7072.463 29.253 17.562 7020.720 4214.785 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (DEC) 17.562 MN 23.912 23.912 29.253 29.469 MX 29.253 29.469 17.562 7371.756 ΑV 23.912 29.253 29.469 17.562 YEARLY SUMMARY 17.562 23.912 23.912 MN 29.253 29.469 MX 29.469 29.253 17.562 89113.039 53106.289 23.912 29.253 ΑV 29.469 17.562

ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC PA 19603 4130.05 FT MORNOUS CONTROL OF THE PARTY OF THE PA ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHID1 READING, RS_3 - HOURLY-REPORT MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP

SETPOINT TEMP P F ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 72.0 73.4 72.0 73.1 75.9 75.0 MX 75.0 SM 18891.0 18851.0 18846.0 18835.7 AV 75.0 74.8 74.8 MONTHLY SUMMARY (FEB) MN 75.0 74.1 75.0 75.6 72.0 75.0 73.0 76.0 SM 17100.0 17093.5 16992.0 17050.2 AV 75.0 75.0 MONTHLY SUMMARY (MAR) MN 75.0 74.3 75.0 75.0 MX 80.8 75.0 80.7 SM 20700.0 20809.9 20700.0 20825.4 ΑV 75.0 MONTHLY SUMMARY (APR) 74.6 75.0 75.0 MN MX 90.7 75.0 90.3 SM 18900.0 19587.4 18900.0 19616.6 ΑV 75.0 MONTHLY SUMMARY (MAY) 75.0 74.7 97.5 MN MX 75.0 75.0 97.0 SM 18900.0 19753.6 18900.0 19892.4 AV 75.0 75.0 78.9 MONTHLY SUMMARY (JUN) MN 75.0 75.2 75.0 75.7 MX 75.0 77.9 75.0 78.4 SM 19800.0 20075.2 19800.0 20267.0 ΑV 75.0 75.0 MONTHLY SUMMARY (JUL) 75.0 75.2 75.0 77.5 MN

75.0

SM 18000.0 18288.4 18000.0 18446.9

76.2

77.7

76.9

MX

75.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
READING, PA 19603 4130.0S PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_3 = HOURLY-REPORT PAGE 2- 1

RS_3	,	- HOURL		1130
			lintper	11NTPER
	THERMOST	ZONE	THERMOST	ZONB
	SETPOINT	TEMP	SETPOINT	TEMP
	P	P	P	P
	(7)	(6)	(7)	(6)
MONTH	LY SUMMARY			
MIN	75.0	75.2	75.0	75.8
MX	75.0	77 6	75.0	77 7
SM	20700.0	21040.6	20700.0	21173.5
AV			75.0	
MONTH	LY SUMMARY			
MIN	75.0	75.0	75.0 75.0	75.0
MX	75.0	77.3	75.0	77.3
SM	18900.0	19111.7	18900.0	19182.6
AV	75.0	75.8	75.0	76.1
MONTH	LY SUMMARY	(OCT)		
MIN	75.0	74.8	75.0 75.0	74.3
MIX	75.0	84.6	75.0	83.7
SM	18000.0	18375.1	18000.0	18380.8
AV	75.0		75.0	
MONTH	LY SUMMARY	(NOV)		
MIN	75.0	74.4	75.0	74.2
MX	75.0 18000.0	90.8	75.0	91.1
SM	18000.0	18311.1	18000.0	18335.8
AV		76.3		
MONTH	LY SUMMARY			
MN	75.0	74.1	72.0 75.0	73.7
MX	75.0	78.2	75.0	78.1
SM	18900.0			
AV		75.0	74.9	75.1
YEARL	Y SUMMARY			
MN	72.0	73.4	72.0	73.0
MX			75.0	
SM	226791.0	230200.5	226617.0	230938.8
AV			74.9	

ENTECH ENGINEBRING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIN MCA H20 ONLY W/OA SCHD1
- HOURLY-REPORT RS_4 = HOURLY-REPORT PAGE 1- 1 RS_4 MMDDHH 2EXTPER 2EXTPER 2INTPER 2INTPER THERMOST ZONE THERMOST ZONE THERMOSI LONG SETPOINT TEMP P P SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 72.4 MN 72.0 75 0 MX 78.6 75.0 79.3 SM 18423.0 18641.9 18435.0 18688.2 AV 73.2 MONTHLY SUMMARY (FEB) 72.0 MN 72.0 72.7 MX 75.0 78.8 75.0 SM 16749.0 16994.1 16764.0 17050.9 73.5 74.5 73.5 74.8 MONTHLY SUMMARY (MAR) MN 72.0 72.7 MX 75.0 85.1 72.0 75.0 72.7 86.0 SM 20445.0 21047.0 20451.0 21129.1 74.1 ΑV 74.1 76.3 MONTHLY SUMMARY (APR) 72.0 75.0 MIN 72.0 72.8 MIX 75.0 100.4 72.8

101.6

85.2

82.6

75.1

74.5

75.1

SM 18840.0 21316.4 18846.0 21481.7

SM 18876.0 20721.0 18876.0 20808.5

SM 19800.0 19824.3 19800.0 19820.9

SM 18000.0 18036.0 18000.0 18032.6

75.2

75.1

82.2

74.8

74.9

75.0

75.0

75.0

72.0 71.5 75.0 105.1

75.0 74.4 75.0 75.8

84.6

AV

AV

AV

74.8

MONTHLY SUMMARY (MAY) MN 72.0 71.4 MX 75.0 104.4

74.9

MONTHLY SUMMARY (JUN) MN 75.0 74.4 MX 75.0 75.8

75.0

MONTHLY SUMMARY (JUL) MN 75.0 74.5 MX 75.0 75.7

75.0

NG EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35
19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING READING, - HOURLY-REPORT · RS 4 2EXTPER 2EXTPER 2INTPER 2INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP F F SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) 75.0 74.5 75.0 75.8 MN 75.0 75.0 75 A SM 20700.0 20741.3 20700.0 20741.6 ΑV 75.0 75.1 MONTHLY SUMMARY (SEP) MN 72.0 73.5 75.0 MX 75.5 75.0 75.5 SM 18897.0 18872.1 18897.0 18878.9 ΑV 75.0 MONTHLY SUMMARY (OCT) MN 72.0 70.5 MX 75.0 92.5 72.0 75.0 72.0 71.4 SM 17976.0 18930.8 17985.0 19083.1 74.9 78.9 74.9 79.5 MONTHLY SUMMARY (NOV) MN 72.0 72.8 MX 75.0 94.2 72.0 72.8 75.0 SM 17853.0 18945.8 17868.0 19090.0 78.9 74.4 74.4 79.5 MONTHLY SUMMARY (DEC) MN 72.0 72.6 MX 75.0 82.2 72.0 72.6 82.2 75.0

SM 18411.0 18695.1 18432.0 18741.0

MX 75.0 104.4 75.0 105.1 SM 224970.0 232766.0 225054.0 233546.4

77.0

YEARLY SUMMARY MN 72.0 MX 75.0

74.4

73.1

74.4

74.4

71.4

DOB-2.1D 6/26/1996 14:55:35 SDL RUN 1

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA HZO ONLY W/OA SCHD1
RS_5 = HOURLY-REPORT PAGE 1- 1

RS_5 - HOURLY-REPORT MMDDHH 3EXTPER 3EXTPER 3INTPER 3INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP F P ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 72.0 72.0 72.4 75.0 ΜX 75.0 78.6 SM 18423.0 18641.9 18435.0 18688.2 73.1 74.0 73.2 MONTHLY SUMMARY (FEB) 72.0 75.0 72.7 78.8 MN 72.0 72.7 75.0 79.6 SM 16749.0 16994.1 16764.0 17050.9 74.5 73.5 AV 73.5 MONTHLY SUMMARY (MAR) MN 72.0 72.7 72.0 72.7 75.0 MX 85.1 75.0 86.0 SM 20445.0 21047.0 20451.0 21129.1 ΔV 74.1 MONTHLY SUMMARY (APR) 72.0 75.0 72.8 100.4 MN 72.0 MX 75.0 101.6 18840.0 21316.4 18846.0 21481.7 AV 74.8 MONTHLY SUMMARY (MAY) 72.0 71.4 75.0 104.4 MN 72.0 MX 75.0 105.1 SM 18876.0 20721.0 18876.0 20808.5 AV 74.9 MONTHLY SUMMARY (JUN) 75.0 75.0 74.4 75.8 MN 75.0 MX 75.0 75.8 SM 19800.0 19824.3 19800.0 19820.9 Àν 75.0 MONTHLY SUMMARY (JUL) 75.0 74.5 75.0 75.7 MIN 75.0 MX 75.0 75 7 SM 18000.0 18036.0 18000.0 18032.6 75.0 75.2

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL

PAGE 2- 1

3EXTPER 3EXTPER 3INTPER 3INTPER

RS_5		- HOURL	19603 Y-REPORT	
			3 INTPER	3 INTPER
	THERMOST SETPOINT F	ZONE TEMP P	THERMOST SETPOINT F	ZONE TEMP F
	(7)	(6)	(7)	(6)
MONTH	LY SUMMARY			
MIN	75.0	74.5	75.0	74.5
MX	75.0	75.8	75.0 75.0	75.8
SM	20700.0	20741.3	20700.0	20741.6
AV	75.0	75.1	75.0	75.2
MONTH	LY SUMMARY	(SEP)		
MN	72.0	73.5	72.0	73.9
MX	75. 0	75.5	75.0	75.5
SM	18897.0	18872.1	18897.0	18878.9
VA	75.0	74.9	75.0	74.9
MONTH	LY SUMMARY			
MN	72.0	70.5	72.0	71.4
MX	75.0	92.5	75.0 17985.0	94.6
SM	17976.0	18930.7	17985.0	19083.1
AV	74.9	78.9	74.9	79.5
	LY SUMMARY	(NOV)		
MIN	72.0	72.8	72.0 75.0	72.8
	75.0	94.2	75.0	95.0
SM	17853.0	18945.7	17868.0	19090.0
AV	74.4	78.9	74.4	79.5
	Y SUMMARY			
	72.0	72.6	72.0	72.6
MX	75.0	82.2	75.0	83.5
SM	18411.0	18695.1	75.0 18432.0	18741.0
AV	73.1	74.2	73.1	74.4
	SUMMARY			
MIN	72.0	70.5	72.0 75.0	71.4
MX	75. 0	104.4	75.0	105.1
		232765.6	225054.0	
AV	74.4	77.0	74.4	77.2

NG BZDOB - BLITE SOFTWARE DEVBLOPMENT INC 19603 4130.05 PT MORROW EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING READING, · RS_6 - HOURLY-REPORT ------MMODHH 4EXTPER 4EXTPER 4INTPER 4INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) MN 72.0 72.4 75.0 76.3 72.0 72.4 MX 75.0 77.2 18234.0 18420.4 18240.0 18440.7 ΑV 72.4 73.2 MONTHLY SUMMARY (FEB) MN 72.0 72.6 MX 75.0 76.2 72.0 72.6 SM 16533.0 16727.1 16554.0 16757.4 72.5 73.4 72.6 73.5 MONTHLY SUMMARY (MAR) MN 72.0 72.6 MX 75.0 82.6 72.0 72.6 75.0 83.1 SM 20268.0 20624.0 20286.0 20662.6 AV 74.7 73.4 73.5 74.9 MONTHLY SUMMARY (APR) MN 72.0 72.8 MX 75.0 94.4 72.0 72.8 75.0 95.2 SM 18786.0 20246.1 18786.0 20328.8 ΑV 74.5 80.3 74.5 80.7 MONTHLY SUMMARY (MAY) MN 72.0 69.2 MX 75.0 101.1 72.0 69.4 75.0 101.5 SM 18840.0 20109.5 18846.0 20149.2 ΑV 74.8 79.8 74.8 80.0

MONTHLY SUMMARY (JUN) 75.0 74.2 75.0 75.8

75.0

MONTHLY SUMMARY (JUL) 75.0 74.4 75.0 75.7

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MX

AV

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SM 19800.0 19806.8 19800.0 19806.5

SM 18000.0 18025.5 18000.0 18025.0

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EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING READING, 19603 RS_6 · HOURLY-REPORT HOURLY-REPORT 4EXTPER 4EXTPER 4INTPER 4INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) MN 75.0 74.1 75.0 75.8 75.0 MX 75.0 75.8 SM 20700.0 20725.5 20700.0 20729.0 75.1 75.0 75.1 MONTHLY SUMMARY (SEP) MN 72.0 71.3 MX 75.0 75.4 72.0 75.0 71.6 75.5 SM 18885.0 18833.6 18885.0 18843.3 ΑV 74.9 74.7 74.9 74.8 MONTHLY SUMMARY (OCT) MN 72.0 65.1 MX 75.0 86.0 72.0 75.0 66.1 87.3 SM 17880.0 18328.5 17892.0 18433.6 ΑV 74.5 76.4 74.6 76.8 MONTHLY SUMMARY (NOV) MN 72.0 72.7 MX 75.0 88.5 72.0 75.0 72.7 89.0 17670.0 18309.8 17685.0 18364.5 ΑV 73.6 76.3 73.7 MONTHLY SUMMARY (DEC) 72.6 MN 72.0 72.6 MX 75.0 79.8 72.0 75.0 80.7 SM 18240.0 18478.9 18243.0 18498.7 ΑV 72.4 73.3 72.4 73.4

YEARLY SUMMARY MIN 72.0 MIX 75.0

ΑV

MN 72.0 65.1 72.0 66.1 MX 75.0 101.1 75.0 101.5 SM 223836.0 228635.7 223917.0 229039.3

74.0

75.7

74.0 75.6

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ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_7 = HOURLY-REPORT PAGE 1- 1

RS_7	EADING,	PA HOURI	4130		
	• • • • • • • • • • • • • • • • • • • •	- 1100KE			
MMDDHH	2MIDL	2MIDL	3MIDL	3MIDL	
	THERMOST	ZONE	THERMOST SETPOINT	ZONE	
	SETPOINT	TEMP	SETPOINT	TEMP	
	F	P	F	P	
	(7)	(6)	(7)	(6)	
MONTH	LY SUMMARY	(JAN)			
MN	75.0	74.7	75.0	74.8	
MX	75.0	76.0	75.0	76.0	
SM	18900.0	19049.2	75.0 75.0 18900.0	19056.2	
AV	75.0	75.6	75.0	75.6	
MONTH	LY SUMMARY	(PEB)			
MIN	75.0	74.9	75.0	74.9	
MX	75.0	76.0	75.0 75.0 17100.0	76.0	
SM	17100.0	17239.7	17100.0	17245.3	
AV	75.0	75.6	75.0	75. 6	
MONTH	LY SUMMARY	(MAR)	75.0 75.0 20700.0		
MN	75.0	74.9	75.0	74.9	
MX	75.0	82.1	75.0	82.1	
SM	20700.0	20961.8	20700.0	20967.7	
AV	75.0	75.9	75.0	76.0	
MONTH	LY SUMMARY	(APR)			
MN	75.0	75.1	75.0 75.0	75.1	
MX	75.0	91.5	75.0	91.5	
SM	18900.0	19772.1	18900.0 75.0	19780.4	
AV	75.0	78.5	75.0	78.5	
MONTH	LY SUMMARY	(MAY)			
MN	75.0	75.1	75.0	75.1	
MX	75.0	98.3	75.0	98.3	
SM	18900.0	19963.6	18900.0	19973.4	
AV	75.0	79.2	75.0 75.0 18900.0 75.0	79.3	
MONTH	LY SUMMARY	(JUN)			
MN	75.0	75.4	75.0	75.4	
MX	75. 0	78.2	75.0	78.2	
SM	19800.0	20246.3	75.0 75.0 19800.0	20254.8	
AV	75.0	76. 7	75.0	76.7	
MONTH	LY SUMMARY	(JUL)			
MIN	75.0	75.6	75.0	75.6	
MX	75.0	78.0	75.0 75.0 18000.0	78.0	
SM	18000.0	18445.5	18000.0	18451.7	
AV	75.0	76.9	75.0	76.9	

READING, PA 19603 7
THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP P P P P P P P P P P P P P P P P P P
2MIDL 2MIDL 3MIDL 3MIDL THERMOST ZONE THERMOST ZONE SSTPOINT TEMP STPOINT TEMP P P P (7)(6)(7)(6) ONTHLY SUMMARY (AUG) MN 75.0 75.5 75.0 75.5 MX 75.0 78.0 75.0 78.0 SM 20700.0 21198.8 20700.0 21206.7 AV 75.0 76.8 75.0 76.8 ONTHLY SUMMARY (SEP) MN 75.0 75.2 75.0 75.2 MX 75.0 75.2 75.0 75.2 MX 75.0 75.4 18900.0 19257.9 AV 75.0 76.4 75.0 76.4 ONTHLY SUMMARY (OCT) MN 75.0 85.2 75.0 75.1 MX 75.0 85.2 75.0 85.2 SN 18000.0 19247.4 18900.0 19257.9 AV 75.0 76.1 75.0 76.4 ONTHLY SUMMARY (OCT) MN 75.0 75.1 75.0 75.1 MX 75.0 76.4 75.0 77.3 ONTHLY SUMMARY (NOV) MN 75.0 74.9 75.0 75.0 MX 75.0 74.9 75.0 75.0 MX 75.0 74.9 75.0 75.0 MX 75.0 76.9 75.0 76.1 ONTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 74.9 75.0 74.9 MX 75.0 74.9 75.0 75.7 ONTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 76.7 75.0 75.7 EARLY SUMMARY MN 75.0 74.7 75.0 75.7 EARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 98.3 75.0 98.3 SN 126800.0 232233.6 226800.0 232232.7
THERMOST ZONE THERMOST ZONE SETPOINT TEMP P P P P P P P P P P P P P P P P P P
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ONTHLY SUMMARY (AUG) MN 75.0 75.5 75.0 75.5 MX 75.0 78.0 75.0 76.8 MX 75.0 76.8 20700.0 21206.7 AV 75.0 76.8 75.0 76.8 ONTHLY SUMMARY (SEP) MN 75.0 75.2 75.0 75.2 MX 75.0 77.9 75.0 77.9 SM 18900.0 19247.4 18900.0 19257.9 AV 75.0 76.4 75.0 76.4 ONTHLY SUMMARY (OCT) MN 75.0 85.2 75.0 85.2 SM 18000.0 18548.7 18000.0 18558.7 AV 75.0 77.3 75.0 77.3 ONTHLY SUMMARY (NOV) MN 75.0 75.0 77.3 75.0 77.3 ONTHLY SUMMARY (NOV) MN 75.0 75.0 76.4 75.0 75.0 MX 75.0 76.9 76.0 18558.7 AV 75.0 77.3 75.0 77.3 ONTHLY SUMMARY (NOV) MN 75.0 75.0 76.0 92.8 75.0 92.9 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 ONTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 77.0 75.0 77.1 ONTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 79.6 75.0 79.6 SM 18000.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 98.3 75.0 98.3 SM 226800.0 232233.6 226800.0 232329.7
DITTHLY SUMMARY (AUG) MN 75.0 75.5 75.0 78.0 SM 20700.0 21198.8 20700.0 21206.7 AV 75.0 76.8 75.0 76.8 DITTHLY SUMMARY (SEP) MN 75.0 75.2 75.0 75.2 MX 75.0 76.4 75.0 76.4 DITTHLY SUMMARY (OCT) MN 75.0 76.4 75.0 76.4 DITTHLY SUMMARY (OCT) MN 75.0 75.1 75.0 75.1 MN 75.0 85.2 75.0 85.2 SM 18000.0 18548.7 18000.0 18558.7 AV 75.0 77.3 75.0 77.3 DITTHLY SUMMARY (NOV) MN 75.0 74.9 75.0 75.0 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 75.0 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 75.0 MX 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 75.7 75.0 75.7 EARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 EARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 98.3 75.0 98.3 SM 226800.0 232233.6 226800.0 232232.7
MN 75.0 75.5 75.0 75.5 MX 75.0 78.0 75.0 78.0 SM 20700.0 21198.8 20700.0 21206.7 AV 75.0 76.8 75.0 76.8 DITTHLY SUMMARY (SEP) MN 75.0 75.2 75.0 75.2 MX 75.0 77.9 75.0 77.9 SM 18900.0 19247.4 18900.0 19257.9 AV 75.0 76.4 75.0 76.4 DITTHLY SUMMARY (OCT) MN 75.0 85.2 75.0 85.2 SM 18000.0 18548.7 18000.0 18558.7 AV 75.0 77.3 75.0 77.3 DITTHLY SUMMARY (NOV) MN 75.0 74.9 75.0 75.0 MX 75.0 92.8 75.0 92.9 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 75.0 MX 75.0 92.8 75.0 92.9 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 98.3 75.0 98.3 SM 226800.0 232233.6 226800.0 232329.7
MN 75.0 75.5 75.0 75.5 MX 75.0 78.0 75.0 78.0 SM 20700.0 21198.8 20700.0 21206.7 AV 75.0 76.8 75.0 76.8 DITTHLY SUMMARY (SEP) MN 75.0 75.2 75.0 75.2 MX 75.0 77.9 75.0 77.9 SM 18900.0 19247.4 18900.0 19257.9 AV 75.0 76.4 75.0 76.4 DITTHLY SUMMARY (OCT) MN 75.0 85.2 75.0 85.2 SM 18000.0 18548.7 18000.0 18558.7 AV 75.0 77.3 75.0 77.3 DITTHLY SUMMARY (NOV) MN 75.0 74.9 75.0 75.0 MX 75.0 92.8 75.0 92.9 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 75.0 MX 75.0 92.8 75.0 92.9 SM 18000.0 18488.1 18000.0 18497.4 AV 75.0 77.0 75.0 77.1 DITTHLY SUMMARY (DEC) MN 75.0 74.9 75.0 74.9 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 79.6 75.0 79.6 SM 18900.0 19072.6 18900.0 19079.5 AV 75.0 75.7 75.0 75.7 UARLY SUMMARY MN 75.0 74.7 75.0 74.8 MX 75.0 98.3 75.0 98.3 SM 226800.0 232233.6 226800.0 232329.7
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SM 226800.0 232233.6 226800.0 232329.7

EZDOB - ELITE SOPTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PAGE 1- 1 ENTECH ENGINEERING READING, 19603 RS_8 - HOURLY-REPORT MMDDHH 4MIDL 4MIDL OINTEXTP OINTEXTP THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 72.0 75.0 72.8 74.8 MN 72.0 ΜX 75.0 74.9 18642.0 18654.2 18543.0 18602.9 AV 73.6 73.8 MONTHLY SUMMARY (FEB) 72.8 75.0 72.0 72.0 72.8 75.0 MX 75.0 SM 16908.0 16894.1 16986.0 16941.0 74.2 74.1 74.5 MONTHLY SUMMARY (MAR)

72.0 73.0 75.0 78.7

74.8

72.0

75.0

75.0

75.0

75.0

75.0

75.0

75.0

MONTHLY SUMMARY (JUL) 75.0

MONTHLY SUMMARY (JUN)

MONTHLY SUMMARY (APR)

18894.0

MONTHLY SUMMARY (MAY) 75.0

SM 20652.0 20604.3 20682.0 20670.1

74.7

73.9 88.3

74.3 95.5

SM 18900.0 19482.7 18900.0 19677.8

SM 19800.0 19925.6 19800.0 20004.4

SM 18000.0 18132.0 18000.0 18208.3

75.**5**

75.5

74.9 76.0

77.3

74.8 76.0

76.4

72.0

75.0

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75.0

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75.0

75.0

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75.0

19260.0 18900.0 19420.7

73 0

79.9

74.2

91.1

74.4

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77.9

75.1

77.7

MN

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MN

SM

AV

AV

MN

AV

MIN

	ENTECH	ENGINER	RING		RZDOR -	ELI	TE SOFTWAR	DEVE	LOPMENT	INC	DOI	8-2.1D	6/26/199	96 14.55.	35 SD	DIN
RI US_8	RADING,	PA = HOURL	19603 Y-REPORT		4130.05	FT.	MONMOUTH	MYER	CENTER	NJ		SIM MC	A H20 ONI	LY W/OA SCHO	1	
							• • • • • • • • • • • • • • • • • • • •								PAGE	2-
	4MIDL	4MIDL	OINTEXTP BR													
	THERMOST	ZONE	THERMOST													
	SETPOINT	TEMP	SETPOINT	TEMP												
	P	P	F	P												
	(7)	(6)	(7)	(6)											
MONTHI	Y SUMMARY	(AUG)														
MN	75.0	74.8		75	.1											
MX	75.0				.4											
SM			20700.0													
AV	75.0	75.5	75.0	75	5.9											
MONTHI	Y SUMMARY	(SEP)														
MIN	75.0	74.6	75.0	74	. 9											
MX	75.0	75.8			. 7											
SM	18900.0	18974.8	18900.0	19056	. 8											
AV	75.0	75.3	75.0	75	. 6											
MONTHI	Y SUMMARY	(OCT)														
MN	75.0	74.1	75.0	74	. 6											
MX	75.0	82.4			.9											
SM	18000.0	18120.0	18000.0	18260	. 2											
AV	75.0	75.5	75.0	76	.1											
MONTHL	Y SUMMARY	(NOV)														
MN	72.0	73.0	75.0	74	. 0											
MX	75.0	87.9	75.0	91	. 0											
		18066.4	18000.0	18191	. 2											
AV	74.8	75.3	75.0	75	. 8											
MONTHI,	Y SUMMARY	(DEC)														
MN	72.0	72.9	72.0	72	. 9											
MX	75.0	76.5	75.0	77	.4											
ME		18675.6	18783.0	18745	. 8											
AV	74.1	74.1	74.5	74	.4											
YBARLY	SUMMARY															
MN	72.0	72.8	72.0	72	. 8											
MX	75.0	95.5														
	225933.0	227583.6	226293.0	228777	.0											
AV	74.7	75.3	74.8	75	.7											

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

BQUIPMBNT	NUMBER SIZE INSTD (MBTU/H) AVAIL					
HW-BOILER	4.101 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-C EQUIPMENT PART LOAD OPERATION REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

BOUIPMENT			Н	OURS A	T PERC	ENT PA	RT LOA	D RAT	rio				TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)
-	0 10	20	30	40	50	60	70	8	30	90	100	- 110+					
HW-BOILER	2827	616	634	478	311	139	41	28	9	1	1	1	5088	3096.9	0.0	202.4	4504.8
	2827	616	634	478	311	139	41	28	9	į.	4	1					
HERM-CENT-CHLR	1286	825	408	207	244	352	266	81	3		0	0	3672	8366.2	0.0	1972.7	0.0
	1286	825	408	207	244	352	266	81	3	1)	0					
COOLING-TWR	1660	651	227	116	89	77	68	102	125	11	5 44	42	3672	10338.9	0.0	807.7	0.0
	1660	651	227	116	89	77	68	102	125	11	5 4	42					

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

- NOTES TO TABLE

 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD

HW-BOILER	3096.9	100.0
LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8366.2	, 100.0

1010 01710		
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	21337.4	100.0
	21337.4	100.0

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 86.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	
BLECTRICAL LOADS	21337.3	21337.4	0.000	0.000	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

EQUIPMBNT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.148	4.101	2 20 3	4.101 5088				
HERM-CENT-CHLR	0.292	7.613	6 13 15	7.800 3672				
COOLING-TWR	0.296	9.214	6 13 15	2.379 14688				

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE - NEWARK, NJ 14:55:35 PDL RUN 1

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUBL-OIL
CATEGORY OF USE		
SPACE HEAT	202.45	4504.78
SPACE COOL	2780.41	0.00
HVAC AUX	3574.63	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.50	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
TOTAL	21337.36	4504.78

TOTAL SITE ENERGY 25842.22 MBTU 78.4 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 68581.08 MBTU 208.1 KBTU/SQFT-YR GROSS-AREA

78.4 KBTU/SQFT-YR NET-AREA 208.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.1 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING DING, PA 19603 EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 PDL RUN 1 READING, PA 19603 - HOURLY-REPORT 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PAGE 1- 1 -----MMDDHH HERM-CEN HRRM-CRN HRRM-CEN HERM-CEN COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD BLECTRIC ENTERING LEAVING WATER RANGE PAN PUMP USR COND TEM COLD TEM PLOWRATE BTU/HR BTU/HR F F GAL/MIN R BTU/HR BTU/HR ----(1) ----(3) ----(12) ---- (13) ----(8) ----(10) ---- (20) ----(21) MONTHLY SUMMARY (JAN) MN 0. 0.0 0.0 0. 0.0 0.0 ٥. 0. ΜX 0. ٥. 0.0 0.0 0.0 0.0 0. 0. SM ٥. 0. 0.0 0.0 0.0 0.0 0. ο. AV 0. 0. 0 0 0.0 0.0 0.0 MONTHLY SUMMARY (FEB) MN ٥. n 0.0 0.0 0.0 0.0 Ο. MX ο. ٥. 0.0 0.0 0.0 0.0 ٥. ٥. SM 0.0 0.0 0.0 0. Ō. ΑV ٥. 0. 0.0 0.0 0.0 0.0 ٥. MONTHLY SUMMARY (MAR) MN 0. ٥. 0.0 0.0 0.0 0.0 0. 0. MX 0.0 0. 0. 0.0 0.0 0.0 0. 0.0 0.0 Ο. 0.0 ο. 0. AV ٥. 0. 0.0 0.0 ٥. O. MONTHLY SUMMARY (APR) MIN ٥. 0. 0.0 0.0 0.0 0.0 ٥. O. MX 0.0 0. 0. 0.0 0.0 0.0 ٥. 0.0 0.0 ο. 0.0 0. 0. AV ٥. ٥. 0.0 0.0 0.0 0.0 0. 0. MONTHLY SUMMARY (MAY) MN 0. ο. 0.0 0.0 0.0 0.0 ٥. 0. 6615459. 140410. 1322150. MX 80.8 8996.5 56.0 7244.9 1950.0 8.2 437461248. 88799120. 257400.0 550.3 17564832. 11941428. ΑV 1735957. 352377. 35.7 1021.4 2.2 69702. 47387. MONTHLY SUMMARY (JUN) MN 1269013. 409250. 64.4 54.2 1950.0 1.8 121511. 90465. MX 7613137. 1600753 84.6 19315.1 56.3 14639.3 9.5 1950.0 140410. 90465. 1311711104. 253112768. 514800.0 36907224 23882852. AV 4968603. 958761. 73.2 6.2 139800. 90465. MONTHLY SUMMARY (JUL) 2474031. 7280946. MN 532226. 65.0 54.6 1950.0 138581. 90465. MX 1500438. 82.9 17977.1 9.1 1606.7 56.2 1950.0 140410. 90465. 1299012736. 249199456. 13345.1 468000.0 33696456 21711684.

1950.0

6.7

140402.

90465.

ΑV

5412553.

1038331.

74.9

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHOL READING, PA 19603 . RP_1 . HOURLY-REPORT PAGR 2- 1 HERM-CEN HERM-CEN HERM-CEN HERM-CEN COOLING- COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWD TWR LOAD RLECTRIC LEAVING WATER RANGE ENTERING PAN PUMP USE COND TEM COLD TEM FLOWRATE ELEC BLBC BTU/HR BTU/HR GAL/MIN R BTU/HR BTU/HR ----(1) ----(3) ----(12) ----(8) ---- (13) ----(10) ---- (20) ---- (21) MONTHLY SUMMARY (AUG) 1954105. 474979 65.0 54.4 1950.0 2.6 MIN 130798 90465 7520791. 1567125. 86.1 56.3 1950.0 9.4 140410. 90465. SM 1480035840. 286303264. 20711.9 15342.0 538200.1 1833.2 38732536. ΑV 5362449. 1037331. 75.0 55.6 1950.0 6.6 140335. 90465. MONTHLY SUMMARY (SEP) MN 369178. 174163. 64.4 53.9 1950.0 0.6 107886. 90465. MX 6498493. 1307453. 82.9 56.0 1950.0 8.1 140410. 90465. 191210848. 17492.8 13876.9 968593152. 491400.0 1209.6 34474932. 22797268. AV 3843624. 758773. 1950.0 4.8 136805. 90465. MONTHLY SUMMARY (OCT) ٥. 0. 0.0 0.0 0.0 0.0 0. ο. 5270618. MX 974010. 71.5 55.6 1950.0 6.5 140410. SM 207899664 51166644. 7064.5 5876.2 210600.0 274.5 13714714. 9770260. 866249. 213194. 29.4 24.5 877.5 1.1 57145. 40709. MONTHLY SUMMARY (NOV) 0. 0.0 0.0 0.0 0.0 ο. ٥. MX ٥. 0. 0.0 0.0 0.0 0.0 O. SM ο. 0. ٥. 0.0 0.0 0.0 0.0 ٥. 0. ٥. 0.0 0.0 0.0 0.0 0. Ο. MONTHLY SUMMARY (DEC) ٥. 0. 0.0 0.0 0.0 0.0 ο. O. MX 0. О. 0.0 0.0 0.0 0.0 ٥. 0. SM 0. 0. 0.0 0.0 0.0 0.0 0. ΑV ٥. 0.0 0.0 0.0 0.0 0. 0. YEARLY SUMMARY

0.0

86.1

30.3

91557.9

1600753.

370302.

1119792000.

MX

SM

7613137.

1886480.

5704714240.

0.0

70324.4 2480400.3

56.3

23.3

0.0

1950.0

820.2

0.0

9.5

2.3

7100.0

0.

175090704.

57900.

ο.

115071920.

38053.

REAL	ENTECH ENGINE DING, PA	ERING 19603		TE SOPTWARE DEVE MONMOUTH - MYER			6 14:5		PDL	RUN	1
P_2		LY-REPORT						E	PAGE		
MDDHH	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE	 	 					
	R	R	R	R							
	LOAD	BLECTRIC	PURL USR	CAPACITY RUNNING							
	BTU/HR	BTU/HR	BTU/HR	BTU/HR							
	(1)	(3)	(4)	(7)							
MONTHLY	SUMMARY (JAN)										
MN	13589.	1196.	21318.	4100792.							
MX	3021471.	90217.									
SM			199436112.								
AV	543766.	35698.	791413.								
MONTHLY	SUMMARY (FEB)										
MN	13589.	1196.	21318.	4100792.							
MX	1723249.	90217.									
SM	55065024.	4721942.									
AV	241513.	20710.	376218.	4100791.							
MONTHLY	SUMMARY (MAR)										
MIN	13589.	1196.	21318.	4100792.							
MX	1656957.	90217.		4100792.							
SM	50730196.	4173791.	78165096.	1131818240.							
AV	183805.	15122.	283207.	4100791.							
MONTHLY	SUMMARY (APR)										
MN	13589.	1196.	21318.	4100792.							
MCX	1020145.	89773.	1600378.	4100792.							
SM	14631465.	1287569.	22953464.	1033399296.							
AV	58061.	5109.	91085.	4100791.							
	SUMMARY (MAY)										
MIN	0.	0.	0.	0.							
MCX	178783.	15733.									
SM	3633134.	319716.		492095040.							
AV	14417.	1269.	22617.	1952758.							
	SUMMARY (JUN)										
MIN	0.	0.	0.	۵.							
MX	0.	0.		ō.							
SM AV	0. 0.	0. 0.	0.	0. 0.							
MONTULV	SUMMARY (JUL)										
MN	O.	0.	0.	0.							
MIX	0.	0.	0.	0.							
SM	0.	0.	0.	0.							
AV	0.	0.	0.	0.							

READ	•	19603 LY-REPORT	4130.05 FT.	MONMOUTH - MYE	R CENTER, NJ	FIMOACO -	SIM MCJ	H20 ONLY	W/OA SCHD	PAG
	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE						
	R	R	R	R						
	LOAD	BLECTRIC USE	USE USE	CAPACITY RUNNING						
	BTU/HR	BTU/HR	BTU/HR	BTU/HR						
	(1)	(3)	(4)	(7)						
	SUMMARY (AUG)									
MN	0.	0.	0.	0.						
MX	0.	0.		0.						
SM	0.	0.	0.	0.						
AV	0.	0.	0.	0.						
	SUMMARY (SEP)									
MN	0.	0.	0.	0.						
MX	0.	0.	0.	0.						
SM	0.	0.	0.	0.						
AV	0.	0.	0.	0.						
MONTHLY	SUMMARY (OCT)									
MIN	0.	0.		0.						
MX	196390.	17282.	308091.	4100792.						
SM	4380862.	385516.	6872583.	541304576.						
AV	18254.	1606.	28636.	2255436.						
	SUMMARY (NOV)									
MN	13589.	1196.	21318.	4100792.						
MX	1254786.	90217.	1870762.	4100792.						
SM	29133240.	2513368.	45460880.	984189824.						
AV	121389.	10472.	189420.	4100791.						
	SUMMARY (DEC)									
MN	13589.	1196.	21318.	4100792.						
MX	1863299.	90217.	2554551.	4100792.						
SM	97294448.	7980622.	149779536.	1033399296.						
AV	386089.	31669.	594363.	4100791.						
YEARLY S										
MIN	0.	0.								
MX	3021471.	90217.	3808477.							
SM AV	391897344. 129596.	30378340. 10046.	594144960. 196477.	7184585728. 23 7 5855.						

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- EV-B COST OF FUELS AND UTILITIES

energy	mmnau	UNIFORM	COST	MIN	RATE	FIXED	FIXED	\	100000	
SOURCE	ENERGY UNIT	COST /UNIT	ESCLA- ATION	MNTHLY CHARGE	LIMIT /UNIT	MNTHLY CHARG1	MNTHLY CHARG2	ASSIGN- SCHEDULE	ASSIGN- CHARGE1	ASSIGN- CHARGE2
	(BTU)	(\$)	RATE	(\$)	(\$)	(\$)	(\$)	(U-NAME)	(U-NAME)	(U-NAME)
BLECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
				0.00						
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

		FUEL-OIL	
HTMOM	UNIT-	UNIT-	
	3413.00	138690.00	

JAN			
ENERGY CONSUMPTION (UNIT/MO)	437963.		
PEAK DEMAND (UNIT/HR)	1457.		
TOTAL COST (\$)	43972.25	4928.39	
PEB			
ENERGY CONSUMPTION (UNIT/MO)	393296.	6604.	
PEAK DEMAND (UNIT/HR)	1457.	35.	
TOTAL COST (\$)	40760.73	3896.21	
MAR			
ENERGY CONSUMPTION (UNIT/MO)	455580.	4791.	
PEAK DEMAND (UNIT/HR)	1457.	21.	
TOTAL COST (\$)	45238.93	2826.42	
APR			
ENERGY CONSUMPTION (UNIT/MO)	429387.	1519.	
PEAK DEMAND (UNIT/HR)	1449.	17.	
TOTAL COST (\$)	43288.15	896.48	
MAY			
ENERGY CONSUMPTION (UNIT/MO)	536732.	198.	
PBAK DEMAND (UNIT/HR)	1943.	3.	
TOTAL COST (\$)	55242.44	116.83	
JUN			
ENERGY CONSUMPTION (UNIT/MO)	664362.	0.	
PEAK DEMAND (UNIT/HR)	2022.	0.	
TOTAL COST (\$)	70361.52	0.00	•
JUL			
ENERGY CONSUMPTION (UNIT/MO)	666001.	0.	
PEAK DEMAND (UNIT/HR)	2008.	0.	
TOTAL COST (\$)	70081.58	0.00	
AUG			
ENERGY CONSUMPTION (UNIT/MO)	697341.	0.	
PEAK DEMAND (UNIT/HR)	2009.	0.	
TOTAL COST (\$)	72822.00	0.00	
SEP			
ENERGY CONSUMPTION (UNIT/MO)	623481.	0.	
PEAK DEMAND (UNIT/HR)	1951.	0.	
TOTAL COST (\$)	66476.63	0.00	
OCT			
ENERGY CONSUMPTION (UNIT/MO)	496446.	310.	
PEAK DEMAND (UNIT/HR)	1848.	9.	
TOTAL COST (\$)	51533.05	183.03	
NOV			
ENERGY CONSUMPTION (UNIT/MO)	414840.	3269.	
PRAK DEMAND (UNIT/HR)	1457.	22.	
TOTAL COST (\$)	42309.72	1928.80	
DBC			
ENERGY CONSUMPTION (UNIT/MO)	436376.	7437.	
PEAK DEMAND (UNIT/HR)	1457.	25.	
TOTAL COST (\$)	43858.15	4387.78	
TOTAL			
ENERGY CONSUMPTION (UNIT/YR)	6251806.	32481.	
PEAK DEMAND (UNIT/HR)	2022.	35.	
TOTAL COST (\$)	645945.13	19163.94	

ENTECH ENGINEERING EZDOE - BLITE SOPTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

ютн	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
AN								
774	4OFPKKWH	744	437963.	31489.53	1457	1457		
	BONPKDMHTG	252	298671.	0.00	1457. 1457.	1457.	0.00	
	2011121212	434	2300/1.	0.00	1457.	1457.	12482.72	
FEB								43972.2
	40PPKKWH	672	393296.	28278.01	1457.	1457.	0.00	
	BONPKDMHTG	228	269225.	0.00	1457.	1457.	12482.72	
								40760.7
IAR								
	40FPKKWH	744	455580.	32756.21	1457.	1457.	0.00	
	BONPKDMHTG	276	325452.	0.00	1457.	1457.	12482.72	
								45238.9
APR								
	4OFPKKWH	720	429387.	30872.93	1449.	1449.	0.00	
	BONDKDWHTG	252	296413.	0.00	1449.	1449.	12415.23	
(AY								43288.1
DA I	4OPPKKWH	744	536732.	38591.05	1943.	1042		
	BONPKDMHTG	252	340085.	0.00	1943.	1943. 1943.	0.00	
			340003.	0.00	1943.	1943.	16651.39	55242.4
TUN								33242.4
	40PPKKWH	456	243672.	17520.00	1144.	1144.	0.00	
	BONPKDMCL	264	420690.	0.00	2022.	2022.	19144.21	
	EONPKKWH	264	420690.	33697.30	2022.	2022.	0.00	
								70361.5
JUL								
	4OFPKKWH	504	277917.	19982.25	1123.	1123.	0.00	
	BONPKDMCL BONPKKWH	240 240	388083.	0.00	2008.	2008.	19013.84	
	BUNPKKWH	240	388083.	31085.49	2008.	2008.	0.00	
UG								70081.5
	40FPKKWH	468	251131.	18056.33	1151.	1151.	0.00	
	BONPKDMCL	276	446210.	0.00	2009.	2009.	19024.27	
	BONPKKWH	276	446210.	35741.40	2009.	2009.	0.00	
							0.00	72822.0
SEP								
	40FPKKWH	468	236900.	17033.13	1116.	1116.	0.00	
	BONPKDMCL	252	386581.	0.00	1951.	1951.	18478.37	
	BONDKKWH	252	386581.	30965.12	1951.	1951.	0.00	
ст								66476.6
C.I.	40FPKKWH	744	400446	35504 44	1040			
	BONDKDMHTG	240	496446. 311527.	35694.44	1848.	1848.	0.00	
	BOAFRAMILIG	240	311527.	0.00	1848.	1848.	15838.62	
10V								51533.0
	40FPKKWH	720	414840.	29827.00	1457.	1457.	0.00	
	EONPKDMHTG	240	282675.	0.00	1457.	1457.	12482.72	
								42309.7

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
EC								
	4OPPKKWH	744	436376.	31375.43	1457.	1457.	0.00	
	EONPKDMHTG	252	298373.	0.00	1457.	1457.	12482.72	
								43858.15
	-							
TOTAL			6251806.	462965.63			182979.52	645945.13

ENTECH ENGINEERING READING, PA 19603
REPORT- PV-A EQUIPMENT SIZES **EZDOE** - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 7/ 1/1996 4130.05 FT. MONMOUTH - MYBR CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

NUMBER NUMBER
TMSTD SIZE INSTD NUMBER NUMBER SIZE INSTD NUMBER NUMBER
SIZE INSTD SIZE INSTD NUMBER NUMBER EQUIPMENT SIZE INSTD SIZE INSTD (METU/H) AVAIL (MBTU/H) AVAIL (METU/H) AVAIL (METU/H) AVAIL (METU/H) AVAIL (METU/H) AVAIL 4.038 1 1 HERM-CENT-CHLR 7.800 1 1 COOLING-TWR 2.379 4 4

Moder OAC Theretrand 11/25% REDUCTOR

DOCERENT DEFRE

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT			1	HOURS A	T PERC	ENT PA	ART LO	AD RAT	10				TOTAL HOURS	ANNUAL LOAD	FALSE	ELEC USED	THERMAL USED
POOTSMENT	0 10	20	30	40	50	60) 7	0 8	0	90	100	- 110+		(MBTU)	(MBTU)	(MBTU)	(MBTU)
HW-BOILER	3062	568	512	430	294	110	62	36	9	4		1	5088	2807.1	0.0	180.1	4064.9
	3062	568	512	430	294	110	62	36	9	4	ı	1					
HERM-CENT-CHLR	1071	521	766	463	318	343	166	24	0	c)	0	3672	8780.1	0.0	1989.2	0.0
	1071	521	766	463	318	343	166	24	0	C)	0					
COOLING-TWR	1226	601	570	302	134	112	124	124	116	87	2	76	3672	10769.3	0.0	813.8	0.0
	1226	601	570	302	134	112	124	124	116	87	7 2	76					

HOT LOOP CIRCULATION PUMP BLECTRICAL USB = 151.9 MBTU COLD LOOP CIRCULATION PUMP BLECTRICAL USB = 924.7 MBTU

NOTES TO TABLE

- 1) THE PIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

EZDOE - ELITE SOPTWARE DEVELOPMENT INC

DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1

MBTU SUPPLIED HEATING LOADS PCT OF TOTAL LOAD HW-BOILER 2807.1 -----LOAD SATISFIED 2807.1 100.0 TOTAL LOAD ON PLANT 2807.1 COOLING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD HERM-CENT-CHLR 8780.1 100.0 LOAD SATISFIED 8780.1 100.0 TOTAL LOAD ON PLANT 8780.1 ELECTRICAL LOADS MBTU SUPPLIED BLECTRICAL LOADS PCT OF TOTAL LOAD BLECTRICITY 23047.1 ------LOAD SATISFIED 23047.1 100.0 TOTAL LOAD ON PLANT 23047.5

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 85.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2807.1	2807.1	0.000	0.000	0
COOLING LOADS	8780.1	8780.1	0.000	0.000	0
ELECTRICAL LOADS	23047.5	23047 1	0.000	0.000	

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/1/1996 11:18:57

READING PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- PS-H EQUIPMENT USE STATISTICS REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

11:18:57 PDL RUN 1

AVG MAX MON DAY DAY SIZE OPER SIZE OPER SIZE OPER SIZE OPER HR (MBTU) HRS (MBTU) HRS (MBTU) HRS (MBTU) HRS (MBTU) HRS EQUIPMENT OPER LOAD RATIO (MBTU) 4.038 5088 HW-BOILER 0.137 4.038 2 20 3 HERM-CENT-CHLR 0.307 7.085 8 18 15 7.800 3672 COOLING-TWR 0.308 8.543 6 13 15 2.379 14688

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHOL
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHOL
WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	180.11	4064.88
SPACE COOL	2802.93	0.00
HVAC AUX	5283.90	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.25	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.26	0.00
TOTAL	23046.46	4064.88

TOTAL SITE ENERGY 27111.97 MBTU 82.3 KBTU/SQFT-YR GROSS-AREA 82.3 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 73275.33 MBTU 222.4 KBTU/SQFT-YR GROSS-AREA 222.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING MEZDOE - SLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 19603 RP_1 - HOURLY-REPORT PAGE 1- 1 -----HERM-CEN HERM-CEN MMDDHH HERM-CEN HERM-CEN COOLING- COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR CAD BLECTRIC ENTERING LEAVING WATER RANGE FAN PUMP USE COND TEM PLOWRATE COLD TEM RLRC RLRC BTU/HR BTU/HR GAL/MIN R BTU/HR BTU/HR ----(1) ----(3) ----(12) ----(13) ----(8) ---- (10) ---- (20) ---- (21) MONTHLY SUMMARY (JAN) MN ٥. Ο. 0.0 0.0 0.0 0.0 0. Ο. MX 0. 0. 0.0 0.0 0.0 0.0 0. ٥. SM 0. 0. 0.0 0.0 0.0 0.0 0. 0. AV 0. 0. 0.0 0.0 0.0 0.0 0. o. MONTHLY SUMMARY (PRB) MN ٥. ٥. 0.0 0.0 0.0 0.0 ο. n. ΜX 0.0 0.0 0.0 0.0 0. O. SM 0. ٥. 0.0 0.0 0.0 0.0 AV 0. 0. 0.0 0.0 0.0 0.0 0. 0. MONTHLY SUMMARY (MAR) 0. MN 0. 0.0 0 0 0.0 0.0 ٥. ŋ. МX 0. 0. 0.0 0.0 0.0 0.0 0. ٥. SM 0. 0. 0.0 0.0 0.0 ٥. ΑV 0. 0. 0.0 0.0 0.0 0.0 ο. ٥. MONTHLY SUMMARY (APR) MN 0. 0. 0.0 0.0 0.0 0.0 ο. ٥. ΜX 0. 0. 0.0 0.0 0.0 0.0 ο. n. SM 0. 0.0 0.0 0.0 0. Ō. AV 0. 0. 0.0 0.0 0.0 MONTHLY SUMMARY (MAY) MN 0. ο. 0.0 0 0 0.0 0.0 ٥. ΜX 5606697. 1057932. 76.9 1950.0 140410. 90465. 55.8 6.9 SM 207910800. 69468808. 16621.7 491400.0 305.3 29105650. 22797268. AV 422583 141197. 33.8 27.7 998.8 0.6 59158. MONTHLY SUMMARY (JUN) MN 294536. 138901. 64.5 53.9 1950.0 0.5 106265. 90465. 80.0 MX 4273526. 834695. 55.3 1950.0 5.3 140410. 90465 SM 795309120. 202452688. 31423.1 24802.8 889200.1 1060.6 59769016. 41252200. AV 1744099. 443975. 68.9 54.4 1950.0 2.3 MONTHLY SUMMARY (JUL) MN 329479. 155419. 65.0 53.9 1950.0 0.6 113415. 90465. 4229558. 79.0 MX 830064. 55.3 1950.0 5.3 140410 90465 SM 1073095552. 255829792. 35678.5 982800.1 68536032. 45594536. 1404.0 ΑV 2129158. 507599. 70.8 54.5 1950.0 2.8 135984. 90465.

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1 READING, PA 19603 P 1 = HOURLY-REPORT 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 PAGE 2- 1 HERM-CEN HBRM-CEN HERM-CEN HERM-CEN COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD BLECTRIC WATER ENTERING LEAVING PANCE PAN DIMD COND TEM COLD TEM PLOWRATE BLBC BLBC BTU/HR BTU/HR GAL/MIN BTU/HR BTU/HR ----(1) ----(3) ----(12) ---- (13) ----(10) ---- (20) ---- (21) MONTHLY SUMMARY (AUG) 294536. 138901. 64.5 82.9 MN 53.9 1950.0 0.5 108054. 90465. мх 4478983. 904651. 55.4 25473.6 1950.0 5.6 140410. 90465. SM 865315712. 217927440. 33142.3 912600.1 1149.2 62408340. 42337780. AV 1848965. 465657. 70.8 54.4 1950.0 2.5 133351. MONTHLY SUMMARY (SEP) MN 294536. 138901. 65.0 53.9 1950.0 0.5 106265. 90465. ΜX 3308904. 665170. 78.0 32074.6 55.0 1950.0 4.2 140410. 90465. 562664832. 169260320. 25362.2 912600.1 789.1 59067972. 42337784. ΑV 1202275. 361667. 68.5 54.2 1950.0 1.7 126214. 90465. MONTHLY SUMMARY (OCT) 0. 0.0 0.0 0.0 0.0 0. D. 2625922. 562344. MY 70.1 54.7 1950.0 3.4 140410. 90465. 115559568. SM 49308716. 16451.3 13587.5 491400.0 190.0 28136252. 22797272. 229285. 97835. 32.6 27.0 975.0 0.4 55826. 45233. MONTHLY SUMMARY (NOV) MN 0. ٥. 0.0 0.0 0.0 0.0 0. ο. MX 0. 0.0 0.0 0.0 0.0 0. o. SM ο. n 0.0 0.0 0.0 0.0 0. ٥. ٥. 0.0 0.0 0.0 0.0 0. n. MONTHLY SUMMARY (DEC) 0. 0. 0.0 0.0 0.0 0.0 ٥. Ō. MX 0. 0.0 0.0 0.0 0.0 0. 0. SM 0. 0. 0.0 0.0 0.0 0.0 ٥. Ο. ٨V ٥. ٥. 0.0 0.0 0.0 0.0 0. ο. YEARLY SUMMARY MN 0. 0. 0.0 0.0 0.0 0.0 ο. 0. 5606697. MX 1057932. 82.9 1950.0 6.9 140410. 55.8 90465. SM 3619855616. 964247744 165391.5 130332.7 4680000.5 4898.1 307023264. 217116832. 631077. 168105. 22.7 28.8 815.9 0.9 53526. 37852.

REA		19603 RLY-REPORT	4130.05 FT.	TE SOPTWARE DE MONMOUTH - MY	BR CENTER, N	J FTMOACO -	SIM MCA	Y W/OA SCHD1	RUN 1
мморки	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE				 	
	R	R	R	R					
	LOAD		FUEL	CAPACITY					
		USB	USE	RUNNING					
	BTU/HR	BTU/HR	BTU/HR	BTU/HR					
	(1)	(3)	(4)	(7)					
MONTHLY	SUMMARY (JAN)								
MIN	47751.	4202.	74911.	4038225.					
MX	3423144.		4218392.	4038225.					
SM	688620416.			1986806912.					
AV	1399635.	77694.							
MONTHLY	SUMMARY (FEB)		20993.						
MX	13382. 4038225.								
SM	584812672.								
			815745856.						
AV	1317146.	71333.	1837266.	4038225.					
MONTHLY	SUMMARY (MAR)								
MN	13382.	1178.	20993.	4038225.					
MIX	2094475.	88841.	2802037.	4038225.					
SM	342445536.		515275392.						
AV	731721.	54876.	1101016.	4038226.					
MONTHLY	SUMMARY (APR)								
MIN	13382.	1178.	20993.	4038225.					
MIX	1511768.	88841.	2154608.	4038225.					
SM	93022688.	7940094.	144736848	1889889536.					
AV	198766.	16966.	309267.						
	SUMMARY (MAY)								
MIN	0.	0.	0. 279585.	0.					
MX	178219.								
SM AV	11111955. 22585.	977852. 1988.	17432148. 35431.						
		2550.	33434.	2505000.					
	SUMMARY (JUN)								
MN	0.	0.	0.	0.					
MX	0.	0.	0.	0.					
SM	0.	0.	0.	0.					
AV	0.	0.	0.	0.					
MONTHLY	SUMMARY (JUL)								
MIN	0.	0.	0.	0.					
MX	0.	0.	0.	0.					
SM	0.	0.	0.						
AV	0.	٥.	0.	0.					
AV	0.	0.	0.	0.					

REAL	DING,	PA	ERING 19603 LY-REPORT	#2DOB - 4130.05								HD1	PDL PAGE	
			• • • • • • • • • • • • • • • • • • • •					 	 	 	 			
	HW-BOIL R	R	HW-BOILE R	HW-BOILE R		HW-BOILE								
	LOAD		BLECTRIC	FUEL		CAPACITY								
	DOAD		USB	USE		RUNNING								
	BTU/HR		BTU/HR			BTU/HR								
	(1	}	(3)	(4)		(7)								
MONTHLY	SUMMARY	(AUG)												
MN	BOTTER	0.	0.		0.		0.							
MX		0.	0.		٥.		0.							
SM		0.	0.		0.		0.							
AV		0.	0.		0.		0.							
MONTHLY	SUMMARY	(SEP)												
MIN		0.	0.		0.		0.							
MX		0.	0. 0.		0.		0.							
SM		0.	0. 0.		٥.		0.							
AV		0.	0.		0.		0.							
MONTHLY	SUMMARY	(OCT)												
MN		0.	0.		0.		0.							
MX		250.	40502.			40382								
	16346					10176325								
AV	32	433.	2854.	5088	31.	20191	12.							
	SUMMARY													
	13	382.	1178.	2099	93.	403822	25.							
MX		723.	88841.	26724	97.	40382	25.							
SM			18795102.											
AV	495	709.	39156.	7557	88.	40382	25.							
	SUMMARY													
	13			209	3.	40382	25.							
MX			88841.	33811	22.	403827	25.							
	591915					19868069								
AV	1203	080.	72387.	17206	21.	40382	26.							
	SUMMARY													
MN		0.	0.		0.		0.							
MX	4038	225.	88841.	48458	70.	40382								
SM														
AV	447	388.	27954.	6440	5 U .	234859	1.							

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/1/1996 11:18:57 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- EV-B COST OF FUELS AND UTILITIES

SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)	
BLECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YBLBC1			
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00				

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/1/1996 11:18:57 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS BLECTRIC FUEL-OIL UNIT= 3413.00 138690.00 ------JAN ENERGY CONSUMPTION (UNIT/MO) 487961. 7925. PEAK DEMAND (UNIT/HR) 1455. TOTAL COST (S) 47557.54 4675.68 PEB ENERGY CONSUMPTION (UNIT/MO) 439306. 6237. PEAK DEMAND (UNIT/HR) 1453. 3680.07 TOTAL COST (\$) 44037.77 MAR ENERGY CONSUMPTION (UNIT/MO) 503776. 1446. 48611.83 PEAK DEMAND (UNIT/HR) 20. TOTAL COST (\$) 2383.83 ENERGY CONSUMPTION (UNIT/MO) 469111. 1157. PEAK DEMAND (UNIT/HR) 1437. TOTAL COST (\$) 46045.34 682.53 ENERGY CONSUMPTION (UNIT/MO)
PEAK DEMAND (UNIT/HR) 568819. 164. 1914. TOTAL COST (\$) 57299.05 96.77 JUIN. ENERGY CONSUMPTION (UNIT/MO) 697866. ٥. PRAK DEMAND (UNIT/HR) TOTAL COST (\$) 1981. 72316.75 0.00 JUL ENERGY CONSUMPTION (UNIT/MO) 703851. Ο. PEAK DEMAND (UNIT/HR)
TOTAL COST (\$) 1972. n 72397.58 0.00 AUG ENERGY CONSUMPTION (UNIT/MO) 733290. 0. PEAK DEMAND (UNIT/HR) 1974. 0. TOTAL COST (\$) 75002.72 0.00 SEP ENERGY CONSUMPTION (UNIT/MO) 660800. 0. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1918. 68798.25 0.00 OCT ENERGY CONSUMPTION (UNIT/MO) 539103. 229. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1829. 54434.82 135.25 NOV ENERGY CONSUMPTION (UNIT/MO)
PEAK DEMAND (UNIT/HR) 462145. 2814. 1447 19. TOTAL COST (\$) 45628.25 1660.25 DEC ENERGY CONSUMPTION (UNIT/MO) 486706. 6742. PEAK DEMAND (UNIT/HR)
TOTAL COST (\$) 1450. 47423.10 3978.03 ENERGY CONSUMPTION (UNIT/YR) 6752735. 29309. PEAK DEMAND (UNIT/HR) 1981. 35.

679553.06

17292.41

TOTAL COST (\$)

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/1/1996 11:18:57 EDL RUN 1
- READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF BLECTRICITY CHARGES

	CHARGE -		CONSUMPTION	ENERGY	MEASURED	BILLING	DEMAND	TOTAL
HONTH	ASSIGNMENT	LENGTH	BY C-A	CHARGE	DEMAND	DEMAND	CHARGE	CHARGES
	(U-NAME)	(HR/MO)	(KWH)	(\$)	(KW)	(KW)	(\$)	(\$)
• • • • • •			*********					
JAN								
	40FPKKWH	744	487961.	35084.43	1455.	1455.	0.00	
	BONPKDMHTG	252	297777.	0.00	1455.	1455.	12473.11	
								47557.54
FEB								
	40FPKKWH	672	439306.	31586.13	1453.	1453.	0.00	
	EONPKDMHTG	228	268484.	0.00	1453.	1453.	12451.63	
MAR								44037.77
- JAN	40PPKKWH	744	503776.	36221.48	1446.	1446.	0.00	
	BONPKDMHTG	276	324761.	0.00	1446.	1446.	12390.35	
			354.02.	5.50			12350.33	48611.83
APR								10022,00
	40FPKKWH	720	469111.	33729.11	1437.	1437.	0.00	
	BONDKDWHIG	252	296112.	0.00	1437.	1437.	12316.23	
								46045.34
MAY								
	4OFPKKWH	744	568819.	40898.05	1914.	1914.	0.00	
	BONPKDMHTG	252	337596.	0.00	1914.	1914.	16400.99	A
JUN								57299.05
••••	40FPKKWH	456	285499.	20527.35	1088.	1088.	0.00	
	BONPKDMCL	264	412368.	0.00	1981.	1981.	18758.73	
	BONPKKWH	264	412368.	33030.67	1981.	1981.	0.00	
								72316.75
JUL								
	40FPKKWH	504	323908.	23288.99	1072.	1072.	0.00	
	BONPKDMCL BONPKKWH	240	379942.	0.00	1972.	1972.	18675.21	
	BONFKKWH	240	379942.	30433.38	1972.	1972.	0.00	2220E 50
AUG								72397.58
	40PPKKWH	468	296469.	21316.14	1095.	1095.	0.00	
	BONPKDMCL	276	436821.	0.00	1974.	1974.	18697.22	
	BONPKKWH	276	436821.	34989.35	1974.	1974.	0.00	
								75002.72
SEP								
	40FPKKWH	468	280414.	20161.77	1066.	1066.	0.00	
	BONPKEWH BONPKKWH	252 252	380386. 380386.	0.00 30468.90	1918. 1918.	1918.	18167.58	
	DANALVAU	454	300300.	30468.90	1319.	1918.	0.00	68798.25
OCT								00/30.25
	40PPKKWH	744	539103.	38761.54	1829.	1829.	0.00	
	BONPKDMHTG	240	310190.	0.00	1829.	1829.	15673.28	
								54434.82
NOA								
	40FPKKWH	720	462145.	33228.25	1447.	1447.	0.00	
	EONPROMHTG	240	282218.	0.00	1447.	1447.	12400.00	45500 05
								45628.25

ENTECH ENGINEERING DING, PA 19603 EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 1/1996 11:18:57 EDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES CONSUMPTION ENERGY MEASURED CHARGE-BILLING DEMAND TOTAL MONTH ASSIGNMENT LENGTH BY C-A CHARGE DEMAND DEMAND CHARGE CHARGES (KM) (\$) (U-NAME) (HR/MO) (KWH) (\$) (KW) (\$) ----------DEC 40PPKKWH 486706. 744 34994.19 1450. 1450. 0.00 0.00 BONDKDMHTG 252 297287. 1450. 1450. 12428.91 47423.10

180833.25

679553.06

498719.72

6752735.

TOTAL

ENTECH ENGINEERING READING, PA 19 REPORT- PV-A EQUIPMENT SIZES 19603 BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 1/1996 11: 5: 6 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

11: 5: 6 PDL RUN 1

WEATHER FILE- NEWARK, NJ

NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD NUMBER NUMBER SIZE INSTD NUMBER NUMBER SIZE INSTD NUMBER NUMBER
TMCTD SIZE INSTD EQUIPMENT SIZE INSTD (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL 4.038 1 1 HERM-CENT-CHLR 7.800 1 1 COOLING-TWR 2.379 4 4

> MODEL DAC Economy M/25% ANI-PERK USINGE

ENTECH ENGINEERING EZDOE - ELITE SOPTWARE DEVELOPMENT INC DOE-2.1D 7/1/1996 11:5:6 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ EQUIPMENT PART LOAD OPERATION MEATHER FILE- NEWARK, NJ

BOUIPMENT			1	HOURS A	T PERC	ENT PA	RT LOA	D RAT	10			TOTAL HOURS	LOAD	FALSE LOAD	BLEC	THERMAL
	0 10	20	3	0 40	50	60	70	8	0 9	0 10	0 - 110+		(MBTU)	(MBTU)	(MBTU)	(MBTU)
HW-BOILER	3062	568	512	430	294	110	62	36	9	4	1	5088	2807.1	0.0	180.1	4064.9
	3062	568	512	430	294	110	62	36	9	4	1					
HERM-CENT-CHLR	1071	521	766	463	318	343	166	24	0	О	0	3672	8780.1	0.0	1989.2	0.0
	1071	521	766	463	318	343	166	24	0	0	0					
COOLING-TWR	1226	601	570	302	134	112	124	124	116	87	276	3672	10769.3	0.0	813.8	0.0
	1226	601	570	302	134	112	124	124	116	87	276					0.0

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 151.9 MBTU
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 924.7 MBTU

- NOTES TO TABLE

 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
 - 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING READING, PA 19603 REPORT- PS-D PLANT LOADS SATISFIED REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

BZDOB - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL

LOADS MBTU SUPPLIED HEATING LOADS PCT OF TOTAL LOAD HW-BOILER 2807.1 100.0 ********* LOAD SATISFIED 2807.1 100.0 TOTAL LOAD ON PLANT 2807.1 COOLING LOADS COOLING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD 8780.1 HERM-CENT-CHLR 8780.1 8780.1 LOAD SATISFIED TOTAL LOAD ON PLANT MBTU SUPPLIED PCT OF TOTAL LOAD BLECTRICITY 23047.1 23047.1 LOAD SATISFIED 23047.1 100.0 TOTAL LOAD ON PLANT 23047.5

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 85.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2807.1	2807.1	0.000	0.000	0
COOLING LOADS	8780.1	8780.1	0.000	0.000	0
ELECTRICAL LOADS	23047.5	23047.1	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

AVG MAX MON MAX MON

LOAD DAY SIZE OPER SIZE OPER SIZE OPER SIZE OPER SIZE OPER
(MBTU) HR (MBTU) HRS (MBTU) HRS (MBTU) HRS (MBTU) HRS

(MBTU) HRS (MBTU) HRS (MBTU) HRS OPER LOAD RATIO (MBTU) BQUIPMENT HW-BOILER 0.137 4.038 2 20 3 4.038 5088 HERM-CENT-CHLR 0.307 7.085 8 18 15 7.800 3672 0.308 8.543 6 13 15 2.379 14688 COOLING-TWR

ENTECH ENGINEERING EZDOB - BLITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	180.11	4064.88
SPACE COOL	2802.93	0.00
HVAC AUX	5283.90	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.25	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.26	0.00
TOTAL	23046.46	4064.88

TOTAL SITE ENERGY 27111.97 MBTU 82.3 KBTU/SQFT-YR GROSS-AREA 82.3 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 73275.33 MBTU 222.4 KBTU/SQFT-YR GROSS-AREA 222.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

RE P_1	ENTECH ADING,	PA - HOUR	19603 LY-REPORT	4130.05	PT. MONMOU	TH - MYER C		PTMOACO - SIM N	7/ 1/1996 11 MCA H20 ONLY W/OA	SCHD1 PAGE 1-
MDDHH	HERM-CE		HERM-CEN		HERM-CEN			COOLING-	COOLING-	
	T-CHLR		T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	
	LOAD		BLECTRIC	ENTERING		WATER	RANGE	PAN	PUMP	
			USE		COLD TEM			BLBC	BLEC	
	BTU/HR		BTU/HR	P	F	GAL/MIN	R	BTU/HR	BTU/HR	
	(1	L)	(3)	(12)	(13)	(8)	(10)	(20)	(21)	
MONTHL	Y SUMMARY	(JAN)								
MN		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MX		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
SM		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV		0.	0.	0.0	0.0	0.0	0.0	0.	o.	
MONTHL	Y SUMMARY	(FEB)								
MIN		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MX		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
SM		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MONTHL	Y SUMMARY	(MAR)								
MIN		0.	0.	0.0	0.0	0.0	0.0	٥.	0.	
MX		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
SM		٥.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
	Y SUMMARY									
MN		0.	0.		0.0	0.0	0.0	0.	0.	
MX		0.	0.		0.0	0.0	0.0	0.	0.	
SM		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV		0.	0.	0.0	0.0	0.0	0.0	0.	0.	
	Y SUMMARY		_							
MN		0.	0.		0.0	0.0	0.0	0.	0.	
MX SM		3559.	1230971.		56.0	1950.0	7.7		90465.	
AV	399675 1586		83401216. 330957.		7242.1	257400.0 1021.4	506.1 2.0	17523364. 69537.	11941428. 47387.	
MONTHL	Y SUMMARY	(JUN)								
MN		5833.	378281.	64.8	54.1	1950.0	1.4	117254.	90465.	
MX		2872.	1460502.		56.3	1950.0	8.8	140410.	90465.	
SM	1184410	0880.		19148.2		514800.0	1471.8	36816312.	23882852.	
AV	4486	405.	872272.		55.4	1950.0	5.6	139456.	90465.	
MONTHL	Y SUMMARY	(JUL)								
MIN	1539	5604.	433877.	64.4	54.3	1950.0	2.1	133925.	90465.	
MX	6889	5006.	1399159.	82.3	56.3	1950.0	8.6	140410.	90465.	
SM	1179970	176.	226407168.	17793.3	13334.4	468000.0	1461.3	33685460.	21711684.	
AV	4916	5543.	943363.	74.1	55.6	1950.0	6.1	140356.	90465.	

	HERM-CEN								
		HBRM-CEN	HERM-CEN	HERM-CEN	COOL THE-	COOLING-	COOLING-	COOLING-	
	T-CHLR	T-CHLR	T-CHLR	T-CHLR	TWR	TWR	TWR		
	LOAD	BLECTRIC	ENTERING	LEAVING		RANGE		TWR	
	LOAD		COND TEM		WATER	KANGE	PAN	PUMP	
		USB		COLD TEM	PLOWRATE	_	BLBC	BLBC	
	BTU/HR	BTU/HR	F	F	GAL/MIN	R	BTU/HR	BTU/HR	
	(1)	(3)	(12)	(13)	(8)	(10)	(20)	(21)	
MONTHLY	SUMMARY (AUG)								
MIN	825230.	372638.	65.0	54.1	1950.0	1.3	125451.	90465.	
MX	7084853.	1452633.	85.4	56.3	1950.0	8.8	140410.	90465.	
SM	1341466752.	260021408.	20505.1			1664.3	38699644.	24968436.	
AV	4860387.	942107.	74.3	55.5	1950.0	6.0	140216.	90465.	
MONTHLY	SUMMARY (SEP)								
MN	348085.	164218.	64.4	53.9	1950.0	0.6	107434.	90465.	
MX		1216208.			1950.0			90465.	
SM		175526368.							
AV		696533.		55.0	1950.0		135902.	90465.	
MONTHLY	SUMMARY (OCT)								
	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
		925952.		55.6			140410.	90465.	
SM	188528128.	49286748.			210600.0		13638067.	9770260.	
AV	785534.	205361.	29.4	24.5	877.5	1.1	56825.	40709.	
MONTHLY	SUMMARY (NOV)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MX	0.	0.	0.0	0.0		0.0	0.	0.	
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
MONTHLY	SUMMARY (DEC)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	ο.	
MX	0.	0.	0.0	0.0		0.0	0.	0.	
SM	0.	0.	0.0	0.0	0.0	0.0	0.	٥.	
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.	
YEARLY S	UMMARY								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	ο.	
MX	7084853.	1460502.		56.3	1950.0			90465.	
SM	5160248320.	1024922816.			2480400.3			115071920.	
AV		338930.	30.0	23.2	820.2	2.1	57741.	38053.	

EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING READING, 19603 PA - HOURLY-REPORT RP_2 MMDDHH HW-BOILE HW-BOILE HW-BOILE HW-BOILE R R LOAD BLECTRIC PUBL CAPACITY USR USE RUNNING BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ----(4) ---(7) MONTHLY SUMMARY (JAN) MIN 13382. 1178. 4038225. 20993. ΜX 2270410. 88841. 2994365. 4038225. SM 88794392. 6561223. 133078104. 1017632512. AV 352359. 26037. 528088. 4038224. MONTHLY SUMMARY (FEB) 1178. MN 13382 20993. 4038225. MX 1250150. 88841. 1858722. 4038225. SM 31503676. 2751152. 49319672. 920715136. AV 138174. 12066. 216314. 4038224. MONTHLY SUMMARY (MAR) 1178. MN 13382. 20993. 4038225. 1219736. MX 88841. 1824115. 4038225. SM 28890218. 2493562. 1114549888. AV 104675. 9035. 163358. 4038224. MONTHLY SUMMARY (APR) MN 13382. 1178. 20993. 4038225. 697945. ΜX 61419. 1094918. 4038225. SM 10010116. 880890. 1017632512. AV 39723. 3496. 62316. 4038224. MONTHLY SUMMARY (MAY) MN 0. 0. 0. 0. MX 153350. 13495. 240572. 4038225. SM 3387980. 298142. 5314975. 484586912. AV 13444. 1183. 21091. 1922964. MONTHLY SUMMARY (JUN) MN ο. 0. 0. 0. MX 0. 0. ο. 0. ΑV ٥. ٥. 0. 0. MONTHLY SUMMARY (JUL) MN 0. 0. ٥. ٥. MX ٥. 0. ο. Ō. AV ۵. ٥. ٥. ٥.

RZDOR - BLITE SOFTWARE DEVELOPMENT INC

ENTECH ENGINEERING READING, PA 19603 RP_2 HOURLY-REPORT			TE SOPTWARE DEVELOPE MONMOUTH - MYER CEI	TER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1		
	HW-BOILE	HW-BOILE	HW-BOILE	HW-BOILE		
	R	R	R	R		
	LOAD	BLECTRIC	PUEL	CAPACITY		
		USB	USB	RUNNING		
	BTU/HR	BTU/HR	BTU/HR	BTU/HR		
	(1)	(3)	(4)	(7)		
MONTHLY	SUMMARY (AUG)					
MN	0.	0.	0.	0.		
MX	0.	0.	0.	0.		
SM	0.	0.	0.	0.		
AV	0.	0.	0.	0.		
MONTHLY	SUMMARY (SEP)					
MIN	0.	0.	0.	0.		
MX	0.	0.	0.	0.		
SM	0.	0.	0.	0.		
AV	0.	0.	0.	0.		
	SUMMARY (OCT)					
MN	0.	0.	0.	0.		
MIX	125740.	11065.	197258.	4038225.		
SM	3920211.	344979.	6149925.	533045600.		
AV	16334.	1437.	25625.	2221023.		
	SUMMARY (NOV)					
MIN	13382.	1178.	20993.	4038225.		
MX	876386.	77122.	1374852.	4038225.		
SM	17540670.	1543579.	27517352.	969173824.		
AV	73086.	6432.	114656.	4038224.		
	SUMMARY (DEC)					
MN	13382.	1178.	20993.	4038225.		
MX	1373219.	88841.	1998314.	4038225.		
SM	56776184.	4891657.	88561568.	1017632512.		
AV	225302.	19411.	351435.	4038224.		
YEARLY						
MN	0.	0.	0.	0.		
MX	2270410.	88841.	2994365.	4038225.		
SM	240823456.	19765184.	370732000.	7074969600.		
AV	79637.	6536.	122597.	2339606.		

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT - EV-B COST OF FUELS AND UTILITIES

FURL-OIL 138690.00 0.5900 5.000 0.00 1000000.000 0.00 0.00

SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGEZ (U-NAME)
BLECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/1/1996 11: 5: 6 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- ES-D SUMMARY OF PUBL AND UTILITY USE AND COSTS BLECTRIC FUEL-OIL MONTH UNIT-UNIT-3413.00 138690.00 JAN ENERGY CONSUMPTION (UNIT/MO)
PEAK DEMAND (UNIT/HR) 487961. 7925. 1455. 30. TOTAL COST (\$) 47557.54 4675.68 PPR ENERGY CONSUMPTION (UNIT/MO) 439306 6237. PEAK DEMAND (UNIT/HR) 1453. 35. TOTAL COST (\$) 44037.77 3680.07 MAR ENERGY CONSUMPTION (UNIT/MO) 503776 4040. PBAK DEMAND (UNIT/HR) 1446. 20. TOTAL COST (\$) 48611.83 2383.83 APR ENERGY CONSUMPTION (UNIT/MO) 469111 1157. PRAK DEMAND (UNIT/HR) 1437. 16. TOTAL COST (\$) 46045.34 682.53 MAY ENERGY CONSUMPTION (UNIT/MO) 568819. 164. PEAK DEMAND (UNIT/HR) TOTAL COST (S) 1914. 57299.05 96.77 697866. ENERGY CONSUMPTION (UNIT/MO) PEAK DEMAND (UNIT/HR) 1981. n. TOTAL COST (\$) 72316.75 0.00 JUL ENERGY CONSUMPTION (UNIT/MO) 703851 n PEAK DEMAND (UNIT/HR) 1972. 0. TOTAL COST (\$) 72397.58 0.00 AUG ENERGY CONSUMPTION (UNIT/MO) 733290. 0. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1974. 75002.72 0.00 SEP ENERGY CONSUMPTION (UNIT/MO) 660800. ٥. PEAK DEMAND (UNIT/HR)
TOTAL COST (\$) 1918. 68798.25 0.00 OCT ENERGY CONSUMPTION (UNIT/MO) 539103. 229. PRAK DEMAND (UNIT/HR) 1829. TOTAL COST (\$) 135.25 54434.82 NOV ENERGY CONSUMPTION (UNIT/MO) 462145 2814 PEAR DEMAND (UNIT/HR)
TOTAL COST (\$) 1447. 45628.25 1660.25 DEC ENERGY CONSUMPTION (UNIT/MO) 486706. 6742. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1450. 47423.10 3978.03 TOTAL ENERGY CONSUMPTION (UNIT/YR) 6752735. 29309. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1981. 679553.06 17292.41

ENTECH ENGINEERING EZDOR - ELITE SOPTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

ютн	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
							•••••	
AN								
	4OPPKKWH	744	487961.	35084.43	1455.	1455.	0.00	
	EONPKDMHTG	252	297777.	0.00	1455.	1455.	12473.11	
EB								47557.54
	4OFPKKWH	672	439306.	31586.13	1453.	1453.	0.00	
	BONPKDMHTG	228	268484.	0.00	1453.	1453.	12451.63	
								44037.77
AR	4 OPPLY WITH	~	503775	26224 45				
	4OFPKKWH	744	503776.	36221.48	1446.	1446.	0.00	
	BONPKDMHTG	276	324761.	0.00	1446.	1446.	12390.35	48611.83
PR								48011.83
	4OPPKKWH	720	469111.	33729.11	1437.	1437.	0.00	
	BONPKDMHTG	252	296112.	0.00	1437.	1437.	12316.23	
								46045.34
AY								
	40FPKKWH	744	568819.	40898.05	1914.	1914.	0.00	
	BONPKDMHTG	252	337596.	0.00	1914.	1914.	16400.99	
UN								57299.05
	4OFPKKWH	456	285499.	20527.35	1088.	1088.	0.00	
	BONPKDMCL	264	412368.	0.00	1981.	1981.	18758.73	
	BONPKKWH	264	412368.	33030.67	1981.	1981.	0.00	
								72316.79
UL	4OPPKKWH	504	323908.	23288.99	1072.	1072.	0.00	
	BONPKDMCL	240	379942.	0.00	1972.	1972.	18675.21	
	BONPKKWH	240	379942.	30433.38	1972.	1972.	0.00	
								72397.58
UG								
	40FPKKWH	468	296469.	21316.14	1095.	1095.	0.00	
	BONPKDMCL	276	436821.	0.00	1974.	1974.	18697.22	
	EONPKKWH	276	436821.	34989.35	1974.	1974.	0.00	75002 77
EP								75002.72
	4OFPKKWH	468	280414.	20161,77	1066.	1066.	0.00	
	BONPKDMCL	252	380386.	0.00	1918.	1918.	18167.58	
	BONDKKMH	252	380386.	30468.90	1918.	1918.	0.00	
								68798.25
CT	4 CERTINA	544	*****					
	4OFPKKWH BONPKDMHTG	744 240	539103. 310190.	38761.54 0.00	1829. 1829.	1829.	0.00	
	DUNFRUMITG	240	310190.	0.00	1829.	1829.	15673.28	54434.82
ov								34434.04
	4OPPKKWH	720	462145.	33228.25	1447.	1447.	0.00	
	BONPKDMHTG	240	282218.	0.00	1447.	1447.	12400.00	
								45628.25

BNTECH ENGINEERING BZDOB - ELITE SOPTWARE DEVELOPMENT INC DOB-2.1D 7/1/1996 11: 5: 6 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

								CONTINUED
HTMO	CHARGE- ASSIGNMENT	I DIVOMI	CONSUMPTION BY C-A	ENERGY	MEASURED DEMAND	BILLING	DEMAND	TOTAL
ONTH	(U-NAME)	LENGTH (HR/MO)	(KMH)	(\$)	(KW)	DEMAND (KW)	CHARGE (\$)	CHARGES (\$)
DEC								
	4OFPKKWH	744	486706.	34994.19	1450.	1450.	0.00	
	EONPKDMHTG	252	297287.	0.00	1450.	1450.	12428.91	
								47423.10
	· -							
TOTAL			6752735.	498719.72			180833.25	679553.06

50-5 Bol win Fearen Chiefer

	ENTECH EN	GINEERING	BZD	OE - ELITE S	OFTWARE DEVELO	OPMENT INC DOB-2.1D 7/2/1996 11:24: 2 SDL RUN 1
REA	DING,	PA 196	03 413	0.05 FT. MON	MOUTH - MYBR C	CENTER, NJ FIMOBBO-SIM (UH&AHU W/DX) 4CLN REHT&HTON24
SR_1	•	HOURLY-REPOR	т			PAGE 1- 1
MMODHH	OSSTMDX	1SSTMDX	2SSTMDX	3 SSTMDX	4SSTMDXC	
	TOT FAN	TOT FAN ELECTRIC	TOT FAN ELECTRIC	TOT FAN ELECTRIC	TOT FAN BLECTRIC	
	KM	KW KW	KW	KW	KW	21
	KW.	VA	K#	V4	K#	V MS 36
	(33)	(33)	(33)	(33)	(33)	
MONTHLY	SUMMARY (J	(AN)				7
MN	18.392	7.987	22.948	13.393	50.500	1 16
MX	18.392	7.987	22.948	13.393	50. 50 0	33 2 33
SM	9049.063	3929.703	11290.217	6589.162	24846.000	/
AV	18.392	7.987	22.948	13.393	50.500	MODEL 36 INCITEM NICETO 20000000
MONTHELS	Y SUMMARY (F	rra i				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8166.226	3546.317	10188.731	5946.316	22422.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHE	Y SUMMARY (M	(AR)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8607.644	3738.010	10739.474	6267.740	23634.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHL	Y SUMMARY (A	APR)				
MIN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8607.644	3738.010	10739.475	6267.739	23634.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHL	Y SUMMARY (N	AAY)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	9049.063	3929.703	11290.217	6589.161	24846.000	
AV	18.392	7.987	22.948	13.393	50.500	
	Y SUMMARY (J					
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	8386.935	3642.164	10464.104	6107.028	23028.000	
AV	18.392	7.987	22.948	13.393	50.500	
	Y SUMMARY (
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	9269.771	4025.550	11565.588	6749.873	25452.000	
AV	18.392	7.987	22.948	13.393	50.500	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:24: 2 SDL RUN 1 READING, 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM (UHEAHU W/DX) 4CLN REHTEHTON24 - HOURLY-REPORT SR_1 PAGE 2- 1 OSSTMOX 1SSTMDX 2SSTMDX 4SSTMDXC TOT FAN TOT FAN TOT FAN TOT PAN TOT FAN BLECTRIC BLECTRIC BLECTRIC BLECTRIC BLECTRIC KW KW ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) MONTHLY SUMMARY (AUG) MN 18.392 7.987 22.948 13.393 50.500 7.987 18.392 MX 22.948 13.393 50.500 8607.644 3738.010 10739.474 6267.739 23634.000 ΑV 18.392 22.948 13.393 MONTHLY SUMMARY (SEP) 18.392 7.987 22.948 13.393 50.500 MX 18.392 7.987 22.948 13.393 50.500 10739.475 SM 8607.644 3738.010 6267.740 23634.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY STIMMARY (OCT) 18.392 7.987 22.948 MN 13.393 50.500 18.392 7.987 22.948 13.393 50.500 CM 9269.771 4025.550 11565.588 6749.873 25452.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (NOV) 7.987 MN 18.392 22.948 13.393 50.500 18.392 7.987 22.948 13.393 50.500 SM 8828.353 3833.857 11014.846 6428.450 24240.000 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (DEC) 7.987 MN 18.392 22.948 13.393 50.500 18.392 7.987 22.948 13.393 50.500 SM 9049.062 3929.703 11290.217 6589.162 24846.000 AV 18.392 7.987 22.948 13.393 50.500 YEARLY SUMMARY 18.392 7.987 22.948 13.393 50.500 MN 18.392 7.987 22.948 13.393 50.500 SM 105498.813 45814.586 131627.406 76819.984 289668.000 AV 7.987 22.948 18.392 13.393 50.500

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:24: 2 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHLAHU W/DX)4CLN REHTEHTON24
REPORT- PV-A EQUIPMENT SIZES MEATHER FILE- NEWARK, NJ

	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
вопіьмвид	SIZE INSTD (MBTU/H) AVAIL					
STM-BOILER	2.939 1 1					
DHW-HEATER	0.000 1 1					
HERM-REC-CHLR	4.552 1 1					

ENTECH ENGINEERING EZDOE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:24: 2 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHGAHU W/DX)4CLN REHTEHTON24
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

DOB-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD -----9985.1 100... STM-BOILER 0.0 DHW-HRATER LOAD SATISFIED TOTAL LOAD ON PLANT 9985.1 9985.1 MBTU SUPPLIED COOLING LOADS PCT OF TOTAL LOAD ------HERM-REC-CHLR 15871.3 100.0 ************* ********** LOAD SATISFIED 15871.3 100.0 TOTAL LOAD ON PLANT 15871.3 MBTU SUPPLIED BLECTRICAL LOADS PCT OF TOTAL LOAD ---------------BLECTRICITY 21900.3 100.0 *********** -----LOAD SATISFIED 21900.3 100.0 TOTAL LOAD ON PLANT 21900.3

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11:24: 2 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM(UH&AHU W/DX)4CLN REHT&LHTON24
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ (CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HRATING LOADS	9985.1	9985.1	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
BLECTRICAL LOADS	21900.3	21900.3	0.000	0.000	0

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11:24: 2 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UHLAHU W/DX)4CLN REHTAHTON24
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

вопіьмвит	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
STM-BOILER DHW-HEATER	0.388	2.939		2.939 8760				
HERM-REC-CHLR	0.398	4.552	8 18 16	4.552 8760				

ENTECH ENGINEERING EZDOE - BLITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM (UH&AHU W/DX) 4CLN REHTAHTON24
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE
WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	550.53	15151.64	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4964.14	0.00	0.00
DOM HOT WIR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
TOTAL	21900.56	15151.64	0.00

TOTAL SITE ENERGY 37051.90 MBTU 313.2 KBTU/SQFT-YR GROSS-AREA 313.2 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 80918.21 MBTU 684.0 KBTU/SQFT-YR GROSS-AREA 684.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1 ENTECH ENGINEERING 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOBBO-STM (UHGAHU W/DX) 4CLN REHTGHTON24 READING. Pλ PAGE 1- 1 HOURLY-REPORT PR_1 _____ HERM-REC HERM-REC HERM-REC STM-BOIL STM-BOIL MMDDHH -CHLR -CHLR BR LOAD BLECTRIC CONDRNSR LOAD BLECTRIC FAN BLEC USR USB BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ---(3) ----(1) ---(3) ----(1) ---- (18) MONTHLY SUMMARY (JAN) MNI 691875 553860. 415125 1228144. 64648. 64648. 2701256. 1776538. 1006540. 682813. MX 377932192. 281947008. 936999104. 31806630. SM 478364480. 972286. 768155. 573063. 1904470. 64648. MONTHLY SUMMARY (PEB) 506556. 379776. 1132605. 64648. ΜX 1413205. 953701. 682813. 2938528. 64648. 28703540. 258160144. 855444544. SM 438156896. 346102944. 1926677. AV 986840. 779511. 581442. MONTHLY SUMMARY (MAR) 1020715. 64648. 727898. 545003. 908338. MN 1901428. 1024457. 682813. 2175210. 64648. 795071552 30255086 SM 517894272 404728928. 300986720 1698871. 64648. AV 1106612. 864805. 643134. MONTHLY SUMMARY (APR) 751183. 562359. 937265. MN 2109139. 1059606. 682813. 2051875. 64648. 30255086. 316353888. 617490240. SM 629455552. 438190752. 1319424. ΑV 1344991. 936305. 675970. MONTHLY SUMMARY (MAY) 654077. 702179. 61792. 1090128. MN 2899371. 1210732. 682813. 1576256. 64648. 31776204. 335833568. 501597984. SM 789316544 485240512 986261. 682589. 1019508. 1604302. ΑV MONTHLY SUMMARY (JUN) 682813. 699064. 61518. 949434. 1384177. MN 1274939. 682813. 1043111. 64648. MX SM 927032768. 482290688. 311362752. 363033088. 29382352. 796125. 64435. AV 2032967. 1057655. 682813. MONTHLY SUMMARY (JUL) 701226. 61708. 1542191. 972581. 682813. MIN 3262543. 1275740. 682813. 879275. 64648. 380571360. 32485686. SM 1128647808. 551956416. 344137792. 1095152. 682813. 755102.

AV

2239381.

ENTECH ENGINEERING DOB-2.1D 7/ 2/1996 **EZDOR** - ELITE SOFTWARE DEVELOPMENT INC 11:24: 2 PDL RUN 1 READING. PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBBO-STM (UH&AHU W/DX) 4CLN REHT&HTON24 - HOURLY-REPORT PR_1 PAGE 2- 1 HRRM-REC HERM-REC HERM-REC STM-BOIL STM-BOIL -CHLR -CHLR -CHLR RR RR BLECTRIC CONDENSR BLECTRIC LOAD LOAD USE FAN BLEC USB BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ----(1) ----(18) ----(3) MONTHLY SUMMARY (AUG) 956579. MN 1432806. 682813. 653014. 57465. MX 3592429. 1322721. 682813. 1000436. 64648. SM 1034400000. 507029920. 319556512. 359288448. 30136386. AV 2210257. 1083397. 682813. 767710. 64394. MONTHLY SUMMARY (SEP) MN 1217109. 924744 682813. 717531. 63143. 2931510. MX 1223276. 682813. 1161363. 64648. SM 484514816. 319556512. 376723680. 30240616. AV 1933503. 1035288. 682813. 804965. 64617. MONTHLY SUMMARY (OCT) MN 1043358. 836645. 626015. 742708. 64648. 1139826. MX 2352478. 682813. 1579706 64648 486767168. SM 753210816. 343803584. 508558848. 32582402. AV 1494466. 965808 682150. 1009045. MONTHLY SUMMARY (NOV) MN 892407. 715077. 535444. 729012. 64153. MX 2334289 1100857 682813. 1910953. 64648. 593284160. 435893920. 319190752. 661522880. 31030004. ΑV 1236009. 908112. MONTHLY SUMMARY (DEC) 592389. 443902. 913630. 64648. MX 1539367. 972169. 682813. 2237186. 64648. 400700064 298113696 512530048. 860915136 31806628. SM ΑV 1041728. 814431. 605922. 1749828. 64648. YEARLY SUMMARY MN 379776. 653014. 57465. MX 3592429. 1322721. 682813. 2938528. 64648. SM 8707173376. 5401348096. 3749003264. 7217216512. 370460608. ÄV 1517987. 941658. 653592. 1258232. 64585.

REA	DING,	GINEBRING PA 1960 HOURLY-REPORT	03 413		OFTWARE DEVELOPMENT MOUTH - MYER CENTER,	INC DOE-2.1D 7/2/1996 10:10:51 SDL RUN 1 NJ FTMOBBO-STM(UHGAHU W/DX)4CLN REHTEHTON24 PAGE 1- 1
HODHH	OSSTMDX	1SSTMDX	2SSTMDX	BSSTMDX	4SSTMDXC	
	TOT FAN	TOT FAN	TOT FAN	TOT PAN	TOT PAN	
	BLECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	BLECTRIC	
	KW	KW	KW	KW	KW	
						1/4
	(33)	(33)	(33)	(33)	(33)	M00=1 35
	SUMMARY (J					TAK CA = 31 1115
MIN	18.392	7.987	22.948	13.393	50.500	
MDC	18.392	7.987	22.948	13.393	50.500	1524.5 2 1 11.5
SM	4634.884	2012.775	5782.794	3374.935	12726.000	APO TOP IN
AV	18.392	7.987	22.948	13.393	50.500	
						Zegoct 11)
	SUMMARY (F					(xcare ra)
MIN	18.392	7.987	22.948	13.393	50.500	() () () () () ()
MX	18.392	7.987	22.948	13.393	50.500	
SM	4193.466	1821.082	5232.052	3053.513	11514.000	
AV	18.392	7.987	22.948	13.393	50.500	ON- PORK ') SZ-
						(1) (1) (1) (1) (1) (1) (1)
	SUMMARY (M		22.948	12 202	F0 F00	(M) - (34) - 776
MN	18.392	7.987		13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	5076.302	2204.468	6333.536	3696.357	13938.000	
AV	18.392	7.987	22,948	13.393	50.500	
MONTHI.Y	SUMMARY (A	DR1				
MN	18.392	7.987	22.948	13.393	50,500	
MIX	18.392	7.987	22.948	13.393	50.500	
SM	4634.884	2012.775	5782.794	3374.935	12726.000	
AV	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (M	(AY)				
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4634.884	2012.775	5782.794	3374.935	12726.000	
AV	18.392	7.987	22.948	13.393	50.500	
	SUMMARY (J	-	20 2:-		50 500	
MN	18.392	7.987	22.948	13.393	50.500	
MX	18.392	7.987	22.948	13.393	50.500	
SM	4855.593	2108.621	6058.165	3535.646	13332.000	
VA	18.392	7.987	22.948	13.393	50.500	
MONTHLY	SUMMARY (J	TUTL)				
MIN	18.392	7.987	22,948	13.393	50.500	
		7.987	22.948	13.393	50.500	
MX	18.392					
MX SM	18.392 4414.175	1916.928	5507.423	3214.224	12120.000	

ENTECH ENGINEERING **BZDOB** - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:10:51 SDL RUN 1 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM (UH&AHU W/DX) 4CLN REHT&HTON24 READING. DA - HOURLY-REPORT PAGE 2- 1 SR 1 OSSTMOX 1 SSTMDX 2SSTMDX 3.SSTMDX 4SSTMDXC LN TOT FAN TOT FAN TOT FAN TOT PAN TOT PAN BLECTRIC ELECTRIC BLECTRIC ELECTRIC ELECTRIC KW κw KW KW KW ----(33) ---- (33) ---- (33) ---- (33) ---- (33) MONTHLY SUMMARY (AUG) 18.392 7.987 22.948 13.393 50.500 MN 18.392 7.987 22.948 13.393 50.500 SM 5076.302 2204.468 6333.536 3696.357 13938.000 18.392 7.987 22.948 13.393 50.500 AV MONTHLY SUMMARY (SEP) 7.987 MN 18.392 22.948 13.393 50.500 22.948 MX 18.392 7.987 13.393 50.500 4634.884 2012.775 5782.794 3374.935 AV 18.392 7.987 22.948 13.393 50.500 MONTHLY SUMMARY (OCT) 18.392 7.987 22.948 13.393 50.500 ΜX 18.392 7.987 22.948 13.393 50.500 1916.928 5507.423 3214.224 12120.000 SM 4414.175 AV 18.392 7.987 13.393 MONTHLY SUMMARY (NOV) 18.392 7.987 13.393 22.948 5507.423 ΜX 18.392 7.987 13.393 50.500 3214.224 1916.928 12120.000 SM 4414.175 18.392 13.393 ΑV MONTHLY SUMMARY (DEC) 18.392 7.987 22.948 МX 18.392 7.987 2012.775 22.948 5782.794 13.393 50.500 12726.000 3374.935 SM 4634.884 18.392 ΑV 13.393 YEARLY SUMMARY MN 7.987 MX 18.392 7.987 22.948 69393.523 13.393 40499.219 50.500 24153.299 152712.000 SM 55618.609

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:10:51 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

EQUIPMENT	NUMBER SIZE INSTO (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (METU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL	NUMBER SIZE INSTD (MBTU/H) AVAIL
STM-BOILER	2.939 1 1					
DHW-HEATER	0.000 1 1					
HERM-REC-CHLR	4.552 1 1					

ENTECH ENGINEERING DING, PA 19603 READING,

EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 10:10:51 F 4130.05 PT. MONMOUTH - MYBR CENTER, NJ FTMOBBO-STM (UH&AHU W/DX) 4CLN REHTEHTON24 10:10:51 PDL RUN 1

REPORT- PS-D PLANT LOADS SATISFIED WEATHER PILE- NEWARK, NJ

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD 85.1 0.0 STM-BOILER DHW-HRATER 0.0 -----LOAD SATISFIED 9985.1 100.0 TOTAL LOAD ON PLANT 9985.1 MBTU SUPPLIED PCT OF TOTAL LOAD COOLING LOADS HBRM-REC-CHLR 15871.3 100.0 LOAD SATISFIED 15871.3 100.0 TOTAL LOAD ON PLANT 15871.3 BLECTRICAL LOADS MBTU SUPPLIED PCT OF TOTAL LOAD BLECTRICITY 21900.3 100.0 LOAD SATISFIED 21900.3 100.0 TOTAL LOAD ON PLANT 21900.3

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	9985.1 15871.3	9985.1 15871.3	0.000	0.000	0
ELECTRICAL LOADS	21900.3	21900.3	0.000	0.000	0

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 10:10:51 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

вопіьмвит	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZB OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
STM-BOILER	0.388	2.939	2 20 5	2.939 8760				
DHW-HEATER	0.000	0.000	0 0 0	0.000 0				
HERM-REC-CHLR	0.398	4.552	8 18 16	4.552 8760				

ENTECH ENGINEERING BZDOE - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 10:10:51 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM (UHEARU W/OX) 4CLN REHTEHTON24
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

DOB-2.1D 7/ 2/1996 10:10:51 PDL RUN 1

ENERGY TYPE IN SITE MBTU - ELECTRICITY FUEL-OIL NATURAL-GAS CATEGORY OF USE SPACE HEAT 550.53 15151.64 0.00 SPACE COOL 8734.99 0.00 0.00 HVAC AUX 4964.14 0.00 DOM HOT WTR 0.00 0.00 0.00 AUX SOLAR 0.00 0.00 0.00 3040.82 LIGHTS 0.00 0.00 VERT TRANS 0.00 MISC BOUIP 4610.08 0.00 0.00 TOTAL 21900.56 15151.64 0.00

TOTAL SITE ENERGY TOTAL SOURCE ENERGY 80918.21 MBTU

37051.90 MBTU

313.2 KBTU/SQFT-YR GROSS-AREA

313.2 KBTU/SQFT-YR NET-AREA 684.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE • 0.0 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED • 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

REAL PR_1	DING, PA - HOUR	19603 LY-REPORT	4130.05 PT.	MONMOUTH - MYEI	R CENTER, NJ	PTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON2: P)	4 Age	1-
MODHH	HERM-REC	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL			
	-CHLR	-CHLR	-CHLR	BR	BR			
	LOAD	BLECTRIC	CONDENSE	LOAD	BLECTRIC			
		USB	PAN BLEC		USB			
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR			
	(1)	(3)	(18)	(1)	(3)			
MONTHLY	SUMMARY (JAN)							
MIN	1090060.	874295.	654036.	843995.	64648.	,		
MX	2092040.	1051559.	682813.					
SM	396929760.	246212368.	172026960.	373617344.	16291196.			
VA	1575118.	977033.	682647.	1482609.	64648.			
MONTHLY	SUMMARY (FEB)							
MIN	1066818.	855555.	640091.	879423.	64648.			
MX	2137164.	1057932.	682813.	2028587.	64648.			
SM	378973952.	225648704.	155638624.	310870944.	14739654.			
AV	1662167.	989687.	682626.	1363469.	64648.			
MONTHLY	SUMMARY (MAR)							
MN	1409930.	953220.	682813.	603527.	53110.			
MX	2595265.	1132922.	682813.	1882990.	64648.			
SM	503283328.	279652096.	188456384.	323352768.	17740418.			
AV	1823490.	1013232.	682813.	1171568.	64277.			
	SUMMARY (APR)							
MIN	1487801.	964636.	682813.	572333.	50365.			
MX	3085316.	1226198.			64648.			
SM	543496640.	268037312.	172068864.	220453056.	15467528.			
AV	2156733.	1063640.	682813.	874814.	61379.			
	SUMMARY (MAY)							
MN	1663845.	990265.	682813.	565358.	49752.			
MX	3828865.	1365767.	682813.		64648.			
SM AV	634489920. 2517817.	283589248. 1125354.	172068864. 682813.	177477984. 704278.	14619943. 58016.			
MONTHJ.V	SUMMARY (JUN)							
MN	2060614.	1047111.	682813.	558144.	49117.			
MX	4349201.	1502434.	682813.	722833.				
SM	825904000.	324826144.	180262624.	161565600.	14217774.			
AV	3128424.	1230402.	682813.	611991.	53855.			
MONTHLY	SUMMARY (JUL)							
MN	2249004.	1077488.	682813.	557458.	49056.			
MX	4166256.	1432733.	682813.	662837.	58330.			
SM	797411840.	303306304.	163875104.	145165008.	12774517.			
AV	3322549.	1263776.	682813.	604854.	53227.			

				TE SOFTWARE DEVI					RUN	1
R_1 R_1		RLY-REPORT		MONMOUTH - MYEI		FIMOBBO-SIM (UI	REARU W/DX)4CLN	PAGE	2-	1
	HERM-REC	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL	***********		 		
	-CHLR	-CHLR	-CHLR	ER	ER					
	LOAD	BLECTRIC USE	CONDENSE FAN BLEC	LOAD	ELECTRIC USE					
	BTU/HR		BTU/HR	BTU/HR	BTU/HR					
	(1)	(3)	(18)	(1)	(3)					
MONTHLY	SUMMARY (AUG)									
MN	2200348.	1066827.	682813.	556143.	48941.					
MX		1491854.		684637.						
SM				167303344.						
	3371049.									
MONTHLY	SUMMARY (SEP)									
MN	1840372	1015714	682813.	549405	48348.					
MX	4068729	1368927.	682813.	549405. 866564.	64648.					
				159246352.						
AV	2815891.	1166371.	682813.	631930.	55511.					
MONTHLY	SUMMARY (OCT)									
			682813	593263.	52207					
MX	3273143.									
				168493280.						
AV	2288828.									
MONTHLY	SUMMARY (NOV)									
MN	1424527.	955364.	682813.	584214.	51411.					
MX	3531256.	1284191.	682813.	1557907.	64648.					
SM	474993984.	248784352.	163875104.	227616032.	15094358.					
AV	1979142.									
MONTHLY	SUMMARY (DEC)									
MIN	1219585.	925111.	682813.	622168.	54751.					
MX	2427751.	1098571.	682813.	1835065.	64648.					
SM	419273440.	249506352.	172068864.	332685888.	16242543.					
AV	1663784.	990105.	682813.	1320182.	64455.					
YEARLY	SUMMARY									
MN	1066818.	855555.	640091.	549405.	48348.					
MX	4552086.	1502434.								
SM	7164089344.	3333650688.	2064741632.							
AV	2369077.	1102398.	682785.	915293.	59558.					

ED-E REMEDIATION

REJ RS_1	DING,	GINEERING PA 1960 HOURLY-REPORT	03 413	OR - ELITE SO			DOE-2 FTMOCA3 - D	.1D 7/2/1 X COOL W/HW		:21 SDL RUN 1 BTUH PAGE 1- 1
MMDDHH	1SDXHT	1SDX	2SDX	3 SDX	4SDX	1SHWONLY	04SHWBLB V	OSDXHT	OSDXNOHT	
	TOT FAN BLECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN BLECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	Mass 2-3
	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	1/100 5/1 1-2
MONTHL	Y SUMMARY (J	JAN)								_
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	T.1 1
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	11-11-11
SM	9939.382	5061.797	10655.630	7269.405	26612.115	0.384	1.919	725.307	1082.203	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	11/2=36
MONTHL	Y SUMMARY (E	FEB)								00/25/5
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MIX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	1/00 10 711
SM	8969.687	4567.963	9616.056	6560.194	24015.811	0.346	1.732	654.545	976.622	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHL	Y SUMMARY (N	(AR)								2- 1
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	$A \cap A = A$
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	OM Post
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	1)
	Y SUMMARY (1-1-
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
	Y SUMMARY (N									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	9939.382	5061.797	10655.630	7269.404	26612.115	0.187	0.936	725.307	1082.203	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200	
	Y SUMMARY (
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM AV	9212.109 20.202	4691.421 10.288	9875.950 21.658	6737.497 14.775	24664.885 54.090	0.000	0.000	672.235 1.474	1003.018	
MONTEST	Y SUMMARY (пп.)								
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	10181.806	5185.255	10915.524	7446.708	27261.189	0.000	0.000	742.997	1108.599	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
AV	20.202	10.200	41.038	14.775	34.090	0.000	0.000	1.9/4	2.200	

ENTECH ENGINEERING **EZDOE** - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:12:21 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -. 18TUH READING. PA 19603 - HOURLY-REPORT PAGE 2- 1 ISDXHT 1SDX 2SDX 3 SDX 4SDX 1 SHWONLY 04SHWRLR OSDXHT OSDXNOHT TOT FAN TOT PAN TOT PAN TOT FAN TOT FAN TOT FAN TOT PAN TOT FAN TOT FAN BLECTRIC ELECTRIC BLECTRIC BLECTRIC ELECTRIC ELECTRIC ELECTRIC BLECTRIC ELECTRIC KW KW KW KW ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) ---- (33) --- (33) MONTHLY SUMMARY (AUG) MN 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 ΜX 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2,200 SM 9454.534 4814.880 10135.844 6914.799 25313.963 0.000 689.926 0.000 1029.413 AV 20.202 10.288 21.658 14.775 54.090 0.000 1.474 2.200 MONTHLY SUMMARY (SEP) MN 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 21.658 14.775 6914.800 54.090 0.000 0.000 1.474 2.200 4814.880 9454.534 25313.961 SM 10135.844 0.000 0.000 689,926 1029.413 ΑV 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MONTHLY SUMMARY (OCT) 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 20.202 10181.806 10.288 5185.255 MY 21.658 14.775 54.090 0.001 0.004 1.474 2.200 SM 10915.524 7446.708 27261.191 0.197 0.983 742.997 1108.598 ΑV 20.202 10.288 21.658 14.775 54.090 0.000 0.002 1.474 2.200 MONTHLY SUMMARY (NOV) MN 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 MX 21.658 10395.737 20.202 10.288 14.775 54.090 0.001 0.004 1.474 2.200 9696.958 4938.338 7092.102 0.374 25963.037 1.872 707.616 1055.808 AV 20.202 10.288 21.658 14.775 54.090 0.001 1.474 MONTHLY SUMMARY (DEC) MN 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 MX 20.202 1.474 725.307 10.288 21.658 14.775 54.090 0.001 0.004 2.200 9939.382 5061.797 10655.631 7269.405 26612.113 0.384 1.919 1082,203 ΑV 20.202 10.288 21.658 14.775 54.090 0.001 1.474 YEARLY SUMMARY MN 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MX 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 8456.014 2.200

SM

AV

115878.648

20.202

59013.141

10.288

124229.055

21.658

84750.625

14.775

310258.313

54.090

2.602

0.000

13.010

0.002

12616.906

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 11:12:21 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW - .1ETUH
REPORT - PV-A EQUIPMENT SIZES WEATHER FILE - NEWARK, NJ

NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER

B Q U I P M B N T SIZE INSTD SIZE INST STM-BOILER 0.579 1 1 DHW-HEATER 0.000 1 1 HERM-REC-CHLR 3.892 1 1

RNTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:12:21 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1ETUH
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ HEATING LOADS MRTH SHIPPLIED DOT OF TOTAL LOAD

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	644.6	100.0
DHW-HEATER	0.0	0.0

LOAD SATISFIED	644.6	100.0
TOTAL LOAD ON PLANT	644.6	
COOLING LOADS	MDTH CHIRDLETON	PCT OF TOTAL LOAD
COODING LOADS	PIBLU SUPPLIAD	

HERM-REC-CHLR	16276.7	100.0
	******	**************
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
BLECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BEBUIRICAL BOADS	MBIU SUPPLIED	

BLECTRICITY	26094.1	100.0
	**********	******
LOAD SATISFIED	26094.1	100.0
TOTAL LOAD ON PLANT	26094.1	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	644.6	644.6	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
BLECTRICAL LOADS	26094.1	26094.1	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 11:12:21 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW - LBTUH
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	37.39	988.18	0.00
SPACE COOL	7908.28	0.00	0.00
HVAC AUX	4941.25	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	4983.86	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	8224.01	0.00	0.00
TOTAL	26094.79	988.18	0.00

TOTAL SITE ENERGY 27082.28 MBTU 210.8 KBTU/SQFT-YR GROSS-AREA 210.8 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 79348.79 MBTU 617.6 KBTU/SQFT-YR GROSS-AREA 617.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 11.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

		BERING										PDL R	NUN
REA LP 1		19603 RLY-REPORT	4130.05 PT	. MONMOUTH -	MYER CENTER,	IJ	FTMOCA3	- DX C	OOL W/	HM # DE	R HW -	GE 1	1 -
MDDHH	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL									
	-CHLR	-CHLR	ER	ER									
			BLECTRIC	FUBL									
			USE	USB									
	BTU/HR	BTU/HR	BTU/HR	BTU/HR									
	(3)	(18)	(3)	(4)									
	SUMMARY (JAN)												
MN	535361.	401088.	1453.	28067.									
MIX	876201.	583796	12738.	752714.									
SM	358254432.	263037744.	5812172.	171351728.									
AV	728159.	534630.	11813.	348276.									
MONTHLY	SUMMARY (FEB)												
MIN	527142.	394952.	504.	9743.									
MX	875766.	583796.	12738.	751541.									
SM	327136096.	239127616.	5195205.	159578688.									
AV	736793.	538576.	11701.	359411.									
MONTHLY	SUMMARY (MAR)												
MN	631776.	473001.	504.	9743.									
MX	900159.	583796.	12738.	572733.									
SM	367624640.	266104240.	5025957.										
AV	785523.	568599.	10739.	271732.									
	SUMMARY (APR)												
MIN	661938.	495478.	504.	9743.									
MIX	923082.	583796.	12738.	499937.									
SM	382968384.	271392160.	2160246.	48507240.									
VA	818309.	579898.	4616.	103648.									
MONTHLY	SUMMARY (MAY)												
MIN	743947.	556541. 583796.	0.	0.									
MX													
SM	413771104.												
AV	840998.	583625.	771.	14917.									
	SUMMARY (JUN)	583796. 583796. 266210880.	_	_									
MIN	798306.	583796.	0.	0.									
MX	1003135.	583796.	0.	0.									
AV	869000.	583796.	0.	0.									
	SUMMARY (JUL)												
MN	804028.												
MX	992180.												
SM		294233088.	0.										
AV	875497.	583796.	0.	o.									

RP_1		LY-REPORT				 	 PA	GE
	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL				
	-CHLR	-CHLR	ER	ER				
	BLECTRIC	CONDENSE	BLECTRIC	FUEL				
	USE	FAN BLEC		USE				
	BTU/HR	BTU/HR	BTU/HR	BTU/HR				
	(3)	(18)	(3)	(4)				
MONTHLY	SUMMARY (AUG)							
MIN		583796.						
MX	991107.	583796.	0.	0				
SM	405776256.			0				
AV	867043.	583796.	0.	0				
MONTHLY	SUMMARY (SEP)							
MIN	781980.	583796.						
MX	948940. 397793312.	583796.	0.		١.			
SM	397793312.							
AV	849986.	583796.	0.	0	١.			
MONTHLY	SUMMARY (OCT)							
MIN	683149.	511279.						
MX	907671.	583796. 293634560.	12738.					
SM								
AV	823961.	582608.	1273.	25377	' •			
	SUMMARY (NOV)							
MIN		468976.						
MEX	922674.	583796.						
SM	380792512.	274897728.	3636822.					
AV	793318.	572704.	7577.	174290).			
	Y SUMMARY (DEC)							
MN	546128.		504.	9743				
MX	885942.			580262				
SM	370277664.		5661317. 11507.	163917632 333166				
AV	752597.	549232.	11507.	333166				
	SUMMARY	204052	0.					
MIN	527142. 1003135.	394952.	12738.	75271				
MX	1003135.	3272436736.		774314176				
	4657185792.	570509.						
AV -	811922.	3/0509.	49/1.	134994				

5_1	- 1	OURLY-REPOR	[PAGE 1- 1
DDHH	1SDXHT	1SDX	2SDX	3 SDX	4SDX	1SHWONLY	04SHWELE V	OSDXHT	OSDXNOHT	
	TOT FAN BLECTRIC	TOT FAN BLECTRIC	TOT FAN ELECTRIC	TOT PAN ELECTRIC	TOT FAN ELECTRIC	"/oc=: 30				
	KW									
	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	Truccat
	SUMMARY (J									MILLE
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	1 - 0/
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299	1,1125 70
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	W/22/0
MONTHL	Y SUMMARY (F									_'
MIN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	16011150
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	4606.056	2345.709	4937.974	3368.748	12332.442	0.178	0.889	336.118	501.509	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MONTHL	Y SUMMARY (M	AR)								On Vield
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	ノバー・シレル
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	5575.751	2839.543	5977.548	4077.958	14928.747	0.215	1.076	406.879	607.090	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	16 1. 1.5
	Y SUMMARY (A									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299	
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
	Y SUMMARY (M									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200	
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.094	0.468	371.498	554.299	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200	
	Y SUMMARY (J									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	5333.328	2716.085	5717.655	3900.655	14279.671	0.000	0.000	389.189	580.694	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
	Y SUMMARY (J									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200	
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.000	0.000	353.808	527.904	
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2,200	

10:31:40 SDL RUN 1 DOE-2.1D 7/ 2/1996 EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -. 18TUH READING, PA 19603 PAGE 2- 1 - HOURLY-REPORT RS 1 OSDXNOHT OSDXHT 1SDXHT 1SDX 2SDX 3SDX 4 SDX 1 SHWONLY 04SHWRLR TOT FAN TOT FAN TOT FAN TOT FAN TOT FAN TOT FAN TOT PAN TOT PAN TOT FAN ELECTRIC ELECTRIC ELECTRIC BLECTRIC ELECTRIC ELECTRIC ELECTRIC RIRCTRIC BLECTRIC KW KW KW KW KW KW KW KW KW ----(33) ---- (33) ----(33) ---- (33) --- (33) ---- (33) --- (33) ---- (33) ----(33) MONTHLY SUMMARY (AUG) 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 MN 20.202 10.288 21.658 14.775 54.090 0.000 0.000 1.474 2.200 ΜX 20.202 14928.747 0.000 607.090 5575.751 2839.543 5977.548 4077.958 0.000 21.658 14.775 54.090 0.000 0.000 1.474 ΔV 20.202 10.288 MONTHLY SUMMARY (SEP) 1.474 2.200 0.000 0.000 10.288 21.658 14.775 54.090 MN 20.202 14.775 54.090 0.000 0.000 1.474 2.200 10.288 21.658 20.202 MX 371.498 554.299 5090.904 2592.626 5457.761 3723.353 13630.595 0.000 0.000 0.000 1.474 0.000 54.090 AV 20.202 10.288 21.658 14.775 MONTHLY SUMMARY (OCT) 1.474 2.200 14.775 54.090 0.000 0.000 10.288 21.658 MN 20.202 14.775 54.090 0.001 0.004 1.474 2.200 MX 20.202 10.288 21.658 353.808 527.904 4848.480 2469.168 5197.868 3546.050 12981.519 0.103 0.515 1.474 0.000 0.002 54.090 ΑV 20.202 10.288 21.658 14.775 MONTHLY SUMMARY (NOV) 14.775 54.090 0.001 0.004 1.474 2.200 10 288 21.658 MN 20.202 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 MX 4848.480 2469.168 5197.868 3546.050 12981.519 0.187 0.936 353.808 527.904 0.001 0.004 1.474 AV 20.202 10 288 21.658 14.775 54.090 MONTHLY SUMMARY (DEC) 0.001 0.004 1.474 2.200 14.775 54.090 10.288 21.658 MN 20.202 MX 20.202 10.288 21.658 14.775 54.090 0.001 0.004 1.474 2.200 0.197 371.498 554.299 5457.761 21.658 13630.595 0.983 SM 5090.904 2592.626 3723.353 14.775 0.004 2.200 ΑV 10.288 20.202 VEADLY CIMMADY 21.658 14.775 54.090 0.000 0.000 1.474 2 200 20.202 10.288 MN 1.474 2.200 20.202 10.288 21.658 14.775 54.090 0.001 0.004 44680.230 163567.141 1.367 6.833 4457.981 6651.591 31111.520 65493.133 SM 61090.844 20.202 10.288 21.658 14.775 54.090 0.000 0.002 1.474 2.200 ΑV

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW - 1BTUH
REPORT- PV-A EQUIPMENT SIZES

WEATHER FILE- NEWARK, NJ

NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD NUMBER (MBTU/H) AVAIL (METU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL STM-BOILER 0.579 1 1 DHW-HEATER 0.000 1 1 3.892 1 1 HBRM-REC-CHLR

ENTECH ENGINEERING EZODE - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 10:31:40 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	644.6	100.0
DHW-HEATER	0.0	0.0
	**********	**************
LOAD SATISFIED	644.6	100.0
TOTAL LOAD ON PLANT	644.6	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	16276.7	100.0
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
•••••		
BLECTRICITY	26094.1	100.0

LOAD SATISFIED	26094.1	100.0
TOTAL LOAD ON PLANT	26094.1	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	644.6	644.6	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
BLECTRICAL LOADS	26094.1	26094.1	0.000	0.000	0

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 10:31:40 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE MEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU - ELECTRICITY FUEL-OIL NATURAL-GAS CATEGORY OF USE SPACE HEAT 37.39 988.18 0.00 SPACE COOL 7908.28 0.00 0.00 4941.25 0.00 0.00 HVAC AUX DOM HOT WTR 0.00 0.00 0.00 AUX SOLAR 0.00 0.00 0.00 4983.86 LIGHTS 0.00 0.00 VERT TRANS 0.00 0.00 0.00 MISC EQUIP 8224.01 0.00 0.00 TOTAL 26094.79 988.18 0.00

TOTAL SITE ENERGY 27082.28 MBTU 210.8 KBTU/SQFT-YR GROSS-AREA 210.8 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 79348.79 MBTU 617.6 KBTU/SQFT-YR GROSS-AREA 617.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 11.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

	ENTECH ENGINE	ERING			DEARFOLMENT INC					RUN
REAL	DING, PA	19603	4130.05 FT	. MONMOUTH -	MYER CENTER, NJ	FTMOCA3 -	DX COOF	W/HW & PER		
P_1		LY-REPORT							PAGE	_
мприн	HERM-REC	HERM-REC	STM-BOIL	STM-BOIL					 	
חחטתה		-CHLR	BR DOLL	BR.						
	BLECTRIC	CONDENSE	BLECTRIC	FURL						
			USB	USB						
		*		BTU/HR						
	BTU/HR	BTU/HR	BTU/HR	BIO/AR						
	(3)	(18)	(3)	(4)						
MONTHLY	SUMMARY (JAN)									
MIN	937605.	583796.	504.	9743 743884						
MX	1082899.	583796.	12738.	743884						
SM	256205232.	147116464.	2096942.	59470712						
AV	1016687.	583796.	8321.	235995						
	SUMMARY (FEB)									
MN	928071.	583796.	504.	9743						
MX	1088467.		12738.	507220	•					
SM	233673600.									
AV	1024884.	583796.	6952.	154663						
MONTHLY	SUMMARY (MAR)									
MN	957016. 1122546.	583796.	504.	9743						
MX	1122546.	583796.	12738.	512098						
	287182592.									
AV		583796.								
MONTHLY	SUMMARY (APR)									
MIN			504. 12738.	9743						
MIX	1183155.	583796. 583796.	12738.	355173						
	268408896.									
AV				38722	•					
MONTHLY	SUMMARY (MAY)									
MIN	985677.			o						
MX	1238328.		4407.	85109	•					
SM	275527424.			1508007	,					
AV	1093363.		310.	5984	•					
MONTHLY	SUMMARY (JUN)									
MIN	1016320.		0.	0						
MX	1304448.	583796.	0.	0	•					
SM	298948832.	154122016.	0.	0						
AV			0.	0						
MONTHLY	SUMMARY (JUL)									
MN	1026370.	583796.	0.	0						
MX	1258694.		0.	0						
	274606400.		0.	0						
	1144193.		0.	0						

. READ			4130.05 FT.	MONMOUTH -	DEVELOPMENT INC MYER CENTER, NJ	PTMOCA3 -	DX COOL W/	HW & PER	10:31:40 PDL RU HW1BTUH PAGE 2-	
	HERM-REC -CHLR BLECTRIC	HERM-REC -CHLR CONDENSR	STM-BOIL ER ELECTRIC	STM-BOIL ER FUEL						
	USE BTU/HR	FAN BLEC BTU/HR	USB BTU/HR	USE BTU/HR						
	(3)	(18)	(3)	(4)						
MONTHLY	SUMMARY (AUG									
MN	1013925.	583796.	0.	0.						
MX	1280765.	583796.	0.	0.						
SM	315750784.	161127568.	0.	0.						
AV	1144025.	583796.	0.	0.	•					
	SUMMARY (SEP			0						
MN	993271.	583796.	0.							
MDX	1207949.	583796.	0.	0						
	276855072.	147116464.	0.	0						
AV	1098631.	583796.	0.	v	•					
	SUMMARY (OCT		0.	0						
MON	975607.	583796. 583796.	8246.	159243						
MX	1167410.	140110912.	124763.	2409484						
SM AV	255 51472 0. 1064645.	583795.	520.	10040						
			320.	-						
MONTHLY	SUMMARY (NOV									
MN	963000.	583796.	504.	9743						
MX	1164715.		12738.	428717						
	250589440.		926197.	19805388						
AV	1044123.	583795.	3859.	82522	•					
	SUMMARY (DEC		504.	9743	1-					
MN			12738.	563442						
MX	1107379. 257862176.		2059144.	50143764						
SM AV	1023263.		8171.	198983						
		303790.	02/2.	2,1,502						
	SUMMARY	503704	0.	0	,					
MN	928071.		12738.	743884						
MX	1304448.		8878254.	213878272						
SM AV	3251125248. 1075108.		2936.	70727						

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RMTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL
REPORT- PS-H EQUIPMENT USE STATISTICS FT. MONMOUTH - MYER CENTER, NJ WEATHER FILE - NEWARK, NJ

BQUIPMBNT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZB OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.307	7.282	8 18 15	7.800 3672				
COOLING-TWR	0.306	8.784	8 18 15	2.400 14688				

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ENTECH ENGINEERING EZDOS - ELITE SOFTWARE DEVELOPMENT INC DOS-2.1D 6/17/1996 22:49: 3 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USB		
SPACE HEAT	229.01	5128.55
SPACE COOL	2659.66	0.00
HVAC AUX	5352.53	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.61	0.00
VERT TRANS	0.00	0.00
MISC BQUIP	4521.42	0.00
TOTAL	23021.24	5128.55

TOTAL SITE ENERGY 28149.62 MBTU 85.4 KBTU/SQFT-YR GROSS-AREA 85.4 KBTU/SQFT-YR NET-AREA 225.4 KBTU/SQFT-YR GROSS-AREA 225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

RP 1	= HOU	RLY-REPORT			PAGE 1
					PAGE 3
MMDDHH	HERM-CEN	HERM-CEN	COOLING-	COOLING-	
	T-CHLR	T-CHLR	TWR	TWR	
	LOAD	BLECTRIC	FAN	PUMP	
		USE	BLBC	BLBC	
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	
	(1)	(3)	(20)	(21)	
MONTHLY	SUMMARY (MAY)				
MIN	302722.	142762.	15251.	90465.	
MX	6348487.		141426.	90465.	
SM	392043168.	81835792.	12712080.		
AV	2970024.				
MONTHLY	SUMMARY (JUN)				
MIN	830509.	372988.	16700.	90465.	
MX	7271629.	1507925.	141426.	90465.	
SM	1194551552.	232249792.	35530404.	23882852.	
AV	4524817.	879734.	134585.	90465.	
MONTHLY	SUMMARY (JUL)				
MN	1498392.	430245.	94161.	90465.	
MX	7050099.	1439141.		90465.	
SM	1191595264.	228490976.	33845808.	21711684.	
AV	4964981.	952046.	141024.	90465.	
	SUMMARY (AUG)				
MN	815628.		32452.	90465.	
MX	7281769.			90465.	
		262494784.		24968436.	
AV	4907798.	951068.	139982.	90465.	
	SUMMARY (SEP)				
MN	355402.		15417.	90465.	
MX	6235474.	1243838.	141426.	90465.	
SM		175046640.			
AV	3427949.	694630.	111935.	90465.	
	SUMMARY (OCT)				
MIN	357490.	168654.			
MX	5014499.				
		47662560. 441320.			
VEADIV	SUMMARY				•
MN		142762	15254	00455	
MX	7781760	142762. 1507925.	15251. 141426.	90465.	
SM		1027780480.		90465.	
AV	4069491.			90465.	

Eco-3

ENTECH ENGINEERING DING, PA 19603 READING, PA 19
REPORT- PV-A EQUIPMENT SIZES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/17/1996 21:21:25
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL

21:21:25 PDL RUN 1

WEATHER FILE- NEWARK, NJ

NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER
SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD SIZE INSTD
(MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL (MBTU/H) AVAIL EQUIPMENT

HW-BOILER 4.712 1 1 7.800 1 1 HERM-CENT-CHLR COOLING-TWR 2.400 4 4

Tower FAN 022 Deix Hise

EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/17/1996 21:21:25 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING DING, PA 19603 READING. REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

BOUIPMENT										TOTAL HOURS		FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)			
_	0 10	20	30	40	50	6	0 70		80	90	100	- 110+					
HW-BOILER	2851 2851	617 617	617 617	459 459	307 307	134 134	57 57	32 32			4	1	5088	3532.8	0.0	229.0	5128.5
HERM-CENT-CHLR	1092 1092	504 504	749 749	469	313 313	339 339	170 170	36			0	0	3672	8802.2	0.0	1986.8	0.0
COOLING-TWR	1170 1170	657 657	551 551	317 317	141	109	119 119	125	111	8	7	285 285	3672	10789.1	0.0	672.8	0.0

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 177.2 MBTU
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 950.4 MBTU

- NOTES TO TABLE

 1) THE PIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
 - 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT - FS-D PLANT LOADS SATISFIED WEATHER FILE - NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3532.8	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	3532.8 3532.8	100.0
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8802.2	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	8802.2 8802.2	100.0
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	23021.1	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	23021.1 23020.8	100.0

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 86.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (METU)	HOURS OVERLOADED
HEATING LOADS	3532.8	3532.8	0.000	0.000	0
COOLING LOADS	8802.2	8802.2	0.000	0.000	
ELECTRICAL LOADS	23020.8	23021.1	0.000	0.000	

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
- READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY M/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

BQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.307	7.282	8 18 15	7.800 3672				
COOLING-TWR	0.306	8.784	8 18 15	2.400 14688				

RREADING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL		
CATEGORY OF USE				
SPACE HEAT	229.01	5128.55		
SPACE COOL	2659.66	0.00		
HVAC AUX	5352.53	0.00		
DOM HOT WTR	0.00	0.00		
AUX SOLAR	0.00	0.00		
LIGHTS	10258.61	0.00		
VERT TRANS	0.00	0.00		
MISC EQUIP	4521.42	0.00		
TOTAL	23021.24	5128.55		

TOTAL SITE ENERGY 28149.62 MBTU 85.4 KBTU/SQFT-YR GROSS-AREA 85.4 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 74261.00 MBTU 225.4 KBTU/SQFT-YR GROSS-AREA 225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

REAL	ENTECH ENGINE DING, PA	ERING 19603 LY-REPORT			DEVELOPMENT IN MYER CENTER, N		6/17/1996 H20 ONLY	PAGE	
		TI-KENOKI				 		 PAGE	1-
MDDHH	HERM-CEN	HERM-CEN	COOLING-	COOLING-					
	T-CHLR	T-CHLR	TWR	TWR					
	LOAD	BLECTRIC	FAN	PUMP					
		USB	RUBC	BLBC					
	BTU/HR	BTU/HR	BTU/HR	BTU/HR					
	(1)	(3)	(20)	(21)					
MONTHLY	SUMMARY (MAY)								
MIN	302722.	142762.	15251.	90465.					
MX	5349443.	1003505.	141426.	90465.					
SM	200589872.	67524968.	8439609.	22797268.					
AV	795992.	267956.	33491.	90465.					
MONTHLY	SUMMARY (JUN)								
MIN	302722.	142762.	15251.	90465.					
MIX	4387579.	852452.		90465.					
SM	799004608.	201814432.	41061692.	41252200.					
AV	1752203.	442576.	90048.	90465.					
MONTHLY	SUMMARY (JUL)								
MIN	302722.	142762.	16165.	90465.					
MX	4323691.	845941.	141426.	90465.					
SM	1085108224.	256985568.		45594536.					
AV	2152993.	509892.	110361.	90465.					
MONTHLY	SUMMARY (AUG)								
MN	302722.	142762.	15419.	90465.					
MX	4581775.	923552.	141426.	90465.					
SM	870181440.	218158096.	44604648.	42337780.					
AV	1859362.	466150.	95309.	90465.					
MONTHLY	SUMMARY (SEP)								
MN	302722.	142762.	15251.	90465.					
МX	3330085.	669181.	141426.	90465.					
SM		166953456.							
AV	1194205.	356738.	63657.	90465.					
	SUMMARY (OCT)								
MIN	302722.	142762.		90465.					
MX	2663557.	566678.	141426.	90465.					
SM	112066016.	47639172.	5857014.	22797272.					
AV	444706.	189044.	23242.	90465.					
	SUMMARY								
MIN	302722.		15251.	90465.					
MX	5349443.			90465.					
SM	3625837824.	959075712.	1000,000,00						
AV	1510766.	399615.	77240.	90465.					

EC0-3

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 FT. MONMOUTH - MYBR CENTER, NJ FTMOACO - SIM MCA HZO ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2803.02	0.00
HVAC AUX	5352.51	0.00
DOM HOT WIR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.58	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.41	0.00
mom. •		
TOTAL	23164.53	5128.55

HOURING
SINGUE SPEED
REDINGS

TOTAL SITE ENERGY 28292.98 MBTU 85.9 KBTU/SQFT-YR GROSS-AREA 85.9 KBTU/SQFT-YR NET-AREA TOTAL SOURCE ENERGY 74691.53 MBTU 226.7 KBTU/SQFT-YR GROSS-AREA 226.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE BLECTRICITY AND/OR FUEL USED TO GENERATE BLECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2: 7:39 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

RP_1 - HOURLY-REPORT -----MMDDHH HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR SIZES LOAD BLECTRIC LOAD MINIMUM TOWER PAN PUMP FRAC HR RUNNING CELL NO. USR TEMP RLEC RLEC PANC DITM BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT. ----(1) ---- (3) ----(1) ----(20) ---- (23) ----(6) ----(9) ----(19) ---- (21) 525 1 618332. 292245. 910577. 4. 65.0 113321. 4. 90465 0.8013 525 2 411510. 194213. 605723. 65.0 109160. 90465. 0.7718 525 3 437646. 206585. 644231. 4. 65.0 109710. 90465. 0.7757 525 4 459344. 216860 676205. 4 . 4. 65.0 110161. 90465. 0.7789 525 5 431755. 203796. 635551. 65.0 109586. 90465. 0.7749 525 6 631318. 298410. 929728. 65.0 113568. 90465. 0.8030 525 7 1706845 450241 2157086 4. 65.0 126525. 90465. 0.8946 525 8 2762013. 567236. 3329249. 4. 65.0 134911. 90465. 0.9539 525 9 3854814. 716778. 4571592. 65.0 141038. 90465. 0.9973 52510 4301003. 786343. 5087345 4. 65.1 141426. 90465. 1.0000 52511 4666796. 847285. 5514080. 4. 4. 65.8 141426. 90465. 1.0000 52512 4869973. 884564. 5754538. 141426. 90465. 1.0000 52513 5409071. 984728. 6393799 4. 4. 68.6 141426. 90465. 1.0000 52514 4793663. 879746. 5673409. 4. 4. 67.3 141426. 90465. 1.0000 52515 4132488. 765379. 4897868. 141426. 90465. 1.0000 4. 139695. 52516 3212557. 624823 3837380 65.0 90465. 0.9878 52517 2672214. 556242. 3228457. 4. 4. 65.0 138876. 90465. 0.9820 52518 2226339 504528. 2730867. 90465. 138668. 0.9805 52519 1382371 419556 1801927 4. 4. 65.0 132897. 90465. 0.9397 52520 1186833. 402250. 1589082. 4. 4. 65.0 131311. 90465. 0.9285 52521 1013197. 387625. 1400821. 126306. 90465. 0.8931 52522 848518 374397 1222915 4. 4. 65.0 124635. 90465. 0.8813 52523 762992. 360986. 1123978. 4. 4. 65.0 123661. 90465. 0.8744 52524 654281. 309315. 963596. 114002. 90465. 0.8061 DAILY SUMMARY (MAY 25) MN 411510. 194213. 605723. 64.7 109160. 90465. 0.7718 ΜX 5409071. 984728. 6393799. 4. 4. 68.6 141426. 90465. 1.0000 53445864. 12234129. 65680004. 1567.8 3086590. 96. 96. 2171169. 21.8247 AV 2226911. 509755. 2736667. 65.3 0.9094 ENTECH ENGINEERING BZDOE - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 2: 7:39 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

	HERM-CEN T-CHLR	HERM-CEN T-CHLR	COOLING- TWR						
	LOAD	BLECTRIC	LOAD	SIZES	MINIMUM	TOWER	FAN	PUMP	FRAC HR
		USB		RUNNING	CELL NO.	TEMP	BLBC	BLEC	PANS RUN
	BTU/HR	BTU/HR	BTU/HR			P	BTU/HR	BTU/HR	FRAC.OR MULT.
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)
526 1	624341.	295098.	919438.		4.	65.0	113436.	90465.	0.8021
526 2	578325.	273260.	851585.			65.0	112549.	90465.	0.7958
526 3	470532.	222160.	692692.			65.0	110392.	90465.	0.7806
526 4	427352.	201711.	629063.			65.0	109494.	90465.	0.7742
526 5	436795.	206182.	642977.			65.0	109692.	90465.	0.7756
526 6	838944.	373647.	1212591.			65.0	124535.	90465.	0.8806
526 7	3627962.	683317.	4311280.			68.7	141426.	90465.	1.0000
526 8	4515940.	832542.	5348482.			72.3	141426.	90465.	1.0000
526 9	4959050.	925133.	5884183.			74.5	141426.	90465.	1.0000
52610	5139727.	970342.	6110069.			75.6	141426.	90465.	1.0000
52611	5441774.	1035158.	6476932.			76.8	141426.	90465.	1.0000
52612	5838525.	1124508.	6963033.			78.2	141426.	90465.	1.0000
52613	6225351.	1218847.	7444198.			79.6	141426.	90465.	1.0000
52614	6348487.	1258375.	7606862.			79.8	141426.	90465.	1.0000
52615	6132609.	1211687.	7344296.			80.3	141426.	90465.	1.0000
52616	5372993.	1054609.	6427603.			79.1	141426.	90465.	1.0000
52617	4961285.	965807.	5927092.			77.7	141426.	90465.	1.0000
52618	4347851.	846228.	5194078.			76.9	141426.	90465.	1.0000
52619	3761942.	745937.	4507880.			76.2	141426.	90465.	1.0000
52620	3355095.	681606.	4036701.			76.0	140809.	90465.	0.9956
52621	3099357.	644638.	3743995.			75.0	140207.	90465.	0.9914
52622	3000988.	627077.	3628066.		4.	75.0	139680.	90465.	0.9877
52623	2668355.	583710.	3252065.	4.	4.	74.0	138604.	90465.	0.9800
52624	2508545.	560278.	3068822.	4.	4.	74.0	137656.	90465.	0.9733
	UMMARY (MAY 26)								
MN	427352.	201711.	629063.			65.0	109494.	90465.	0.7742
MX	6348487.	1258375.	7606862.			80.3	141426.	90465.	1.0000
SM	84682128.	17541858.	102223976.			1759.9	3215597.	2171169.	22.7369
ΑV	3528422.	730911.	4259333.	4.	4.	73.3	133983.	90465.	0.9474
	SUMMARY (MAY)								
MN	411510.	194213.	605723.			64.7	109160.	90465.	0.7718
MX	6348487.	1258375.	7606862.			80.3	141426.	90465.	1.0000
SM	138128000.	29775988.	167903984.			3327.7	6302187.	4342338.	44.5616
AV	2877667.	620333.	3498000.	4.	4.	69.3	131296.	90465.	0.9284

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 2: 7:39 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

P_1									
	HERM-CEN	HERM-CEN	COOLING-		COOLING-		COOLING-	COOLING-	COOLING-
	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	TWR	TWR	TWR
	LOAD	BLECTRIC	LOAD	SIZES	MUMINIM	TOWER	PAN	PUMP	FRAC HR
		USB		RUNNING	CELL NO.	TEMP	ELEC	BLEC	FANS RUN
	BTU/HR	BTU/HR	BTU/HR			P	BTU/HR	BTU/HR	FRAC.OR MULT.
	(1)	(3)	(1)	(6)	(9)	(19)		(21)	(23)
613 1	1978521.	499272.	2477793.	4.			134203.	90465.	0.9489
613 2	1961302.	497405.	2458708.			74.0	134081.	90465.	0.9481
613 3	1876837.	488353.	2365190.			74.0	133470.	90465.	0.9437
613 4	1812907.	481616.	2294523.			74.0	132996.	90465.	0.9404
613 5	1836007.	484039.	2320046.	4.	4.	75.0	132231.	90465.	0.9350
613 6	2841241.	605906.	3447147.	4.	4.	75.0	138819.	90465.	0.9816
613 7	4415719.	842722.	5258441.	4.	4.	77.0	141426.	90465.	1.0000
613 8	5238986.	1004274.	6243259.	4.	4.	78.9	141426.	90465.	1.0000
513 9	5833208.	1139176.	6972384.	4.	4.	80.6	141426.	90465.	1.0000
61310	6349579.	1267680.	7617259.	4.	4.	82.2	141426.	90465.	1.0000
61311	6600368.	1341880.	7942248.	4.	4.	82.6	141426.	90465.	1.0000
61312	7022062.	1448864.	8470926.	4.	4.	84.0	141426.	90465.	1.0000
61313	6994234.	1458491.	8452724.	4.	4.	82.4	141426.	90465.	1.0000
61314	7271629.	1507925.	8779554.	4.	4.	83.6	141426.	90465.	1.0000
61315	6310310.	1287850.	7598160.	4.	4.	79.0	141426.	90465.	1.0000
61316	5762688.	1125281.	6887969.	4.	4.	78.1	141426.	90465.	1.0000
61317	5415416.	1047087.	6462502.	4.	4.	80.0	141426.	90465.	1.0000
61318	4953252.	970333.	5923585.			78.5	141426.	90465.	1.0000
61319	4347997.	851085.	5199081.			77.7	141426.	90465.	1.0000
61320	3921492.	775505.	4696997.			77.2	141426.	90465.	1.0000
61321	3655017.	731102.	4386119.			76.9	141426.	90465.	1.0000
61322	3392706.	690490.	4083196.			76.0	141003.	90465.	0.9970
61323	3221664.	661677.	3883340.			76.0	140147.	90465.	0.9910
61324	3054979.	638549.	3693528.	4.	4.	76.0	139284.	90465.	0.9849
	SUMMARY (JUN 13)								
MD4	1812907.	481616.	2294523.				132231.	90465.	0.9350
MX	7271629.	1507925.	8779554.				141426.	90465.	1.0000
SM	106068112.	21846556.	127914696.			1872.8	3347633.	2171169.	23.6705
AV	4419505.	910273.	5329779.	4.	4.	78.0	139485.	90465.	0.9863

ENTECH ENGINEERING MEDOR - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/18/1996 2: 7:39 PDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP 1 - HOURT.Y-PRPOPT PAGE 4- 1 HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWR LOAD BLECTRIC LOAD SIZES MINIMUM TOWER PAN DITMD FRAC HR RUNNING CELL NO. TEMP BLEC BLBC FANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC. OR ----(1) ----(3) ----(1) ----(6) ----(9) ---- (20) ---- (19) ---- (21) ---- (23) 614 1 2812733. 606183. 3418916. 4. 4. 76.0 137946. 90465. 0.9754 614 2 2660563. 586604. 3247167. 75.0 137811. 90465. 0.9744 614 3 2611037. 576516. 3187552 4. 4. 76.0 136729. 90465. 2477601. 563827. 3041428. 4. 76.0 135914. 4. 90465. 0.9610 614 5 2410466. 555678. 2966144. 76.0 135480. 90465. 0.9580 614 6 3401448 687409 4088857. 4. 77.0 140390. 90465. 0.9927 614 7 4922452. 944387. 79.3 5866839. 4. 4. 141426. 90465 1.0000 614 8 5780206. 1130959. 6911166. 4. 81.3 141426. 90465. 4. 1.0000 1165021. 614 9 5858298. 7023318. 79.9 141426. 90465. 1.0000 6107864. 61410 1206654. 7314518. 4. 4. 80.2 141426. 90465. 1.0000 61411 6083711. 1204473. 7288184. 4. 4. 79.4 141426. 90465. 1.0000 1283649. 61412 6466565. 7750214. 141426. 90465. 1.0000 61413 6792395. 1373430. 8165825 4. 4. 82.8 141426. 90465. 1.0000 1367614. 6678760. 8046374. 4. 4. 81.9 141426. 90465. 1.0000 61415 5432629. 1080210. 6512839. 141426. 90465. 1.0000 61416 4474579 872512 5347091 4. 73.9 141426 90465. 1.0000 3608903. 708528. 4317432. 4. 69.5 141426. 4. 90465. 1.0000 1875511. 476006. 61418 2351517. 0.9653 61419 1116705. 396259. 1512964. 4. 4. 65.0 123847. 90465. 0.8757 61420 874478. 1250918. 4. 65.0 124904. 90465. 0.8832 61421 734309 347344 1081653 4. 65.0 123235 90465. 61422 476221. 224855. 701076. 65.0 4. 4. 119112. 90465. 0.8422 61423 311525. 146922. 458447. 0.7565 61424 396137. 186937. 583074 4 4 65 0 108833. 90465 0.7695 DAILY SUMMARY (JUN 14) 311525. 146922. 458447. 4. 4. 65.0 106988. 90465. 0.7565 MX 6792395. 1373430. 4. 82.8 141426. 90465. 1.0000 102433504. SM 84365104 18068416. 96. 96. 1778.5 3223398. 2171169. 22.7920 ΑV 3515213. 752851. 4268063. 4. 4. 74.1 134308. 90465. 0.9497 MONTHLY SUMMARY (JUN) 311525. 146922. 458447. 65.0 106988. 4. 90465 0.7565 7271629. MX 1507925. 8779554. 84.0 141426. 90465. 1.0000 SM 190433216. 39914972. 230348192. 192. 192. 3651.2 6571031 4342338. 3967359. 831562. 4798921. 4. 76.1 4. 136896. 90465 0.9680

ENTECH ENGINEERING BZDOB - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2: 7:39 PDL RUN 1 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, PA 19603 RP 1 - HOURLY-PERCET PAGE 5- 1 HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR LOAD ELECTRIC LOAD SIZES MINIMUM TOWER PAN DIMD FRAC HR RUNNING CELL NO. TEMP BLBC BLEC FANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT. ----(1) ----(3) ----(1) ----(6) ----(9) ---- (20) ---- (19) ---- (21) ---- (23) 818 1 2536384. 563673. 3100056. 4. 4. 74.0 137821. 90465. 0.9745 818 2 2334174. 539448. 2873622. 73.0 137421. 90465. 0.9717 818 3 2237630. 525018. 2762648 4. 4. 73.0 136803. 90465. 0.9673 818 4 2064430. 505578. 2570008. 4. 72.0 136575. 90465. 0.9657 818 5 1877811. 482605. 2360416. 71.0 136255. 90465. 0.9634 818 6 2772317. 583158. 140631. 3355475 4. 4. 72.0 90465. 0.9944 818 7 4335458. 815039. 5150497. 4. 75.2 141426. 90465. 1.0000 818 8 5256840 996690. 6253530. 141426. 90465. 1.0000 818 9 5808053. 1127677. 141426. 6935730. 4. 4. 79.0 90465. 1.0000 81810 6218376. 1223490. 7441865. 4. 4. 80.4 141426. 90465 1.0000 81811 6601525 1324143. 7925668. 141426. 90465. 1.0000 81812 6680344. 1356615. 8036959. 4. 4. 81.1 141426. 90465. 1.0000 81813 7079866. 1446835. 8526701. 4. 4. 81.7 141426 90465. 1.0000 81814 7281769. 1502584. 8784353. 4. 141426. 83.6 90465. 1.0000 81815 6946938. 1441591. 8388528. 4. 85.5 141426. 90465. 1.0000 81816 5940299. 1224131. 7164430. 4. 4. 84 1 141426. 90465 1.0000 81817 5673811. 1151062. 6824874. 4. 141426. 83.7 90465. 1.0000 81818 5161632. 1040863 6202494. 141426. 1.0000 81819 923552. 5505327. 4. 4. 82.3 141426. 90465. 1.0000 81820 4249036. 858486 5107522. 81.0 141426. 90465. 1.0000 81821 4032552 813154 4845706 4. 81.0 141164. 90465. 0.9981 81822 777868. 4595569. 4. 4. 81.0 140182. 90465. 0.9912 81823 3615632 745860 4361492. 139195. 90465. 0.9842 81824 3410250. 714421. 4124671. 4. 4 81.0 138126. 90465. 0.9767 DAILY SUMMARY (AUG 18) 1877811. 482605. 2360416. 4. 71.0 136255. 90465. 0.9634 MX 7281769. 1502584. 8784353. 4. 85.5 141426. 90465. 1.0000 SM 96. 4. 110514592. 22683538 133198136 96. 1899.6 3364144. 2171169. 23.7872

79.1

140173.

90465.

0.9911

AV

945147.

5549923.

4.

4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 - HOURLY-REPORT PAGE 6- 1 HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWR LOAD BLECTRIC LOAD SIZES MINIMUM TOWER PAN DIMD FRAC HR USB RUNNING CELL NO. TEMP ELEC BLBC FANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC. OR ----(1) ----(3) ----(1) ---- (6) ---- (9) ---- (19) ---- (20) ---- (21) ---- (23) 819 1 3153977. 676731. 3830708. 4. 4. 80.0 137306. 90465. 0.9709 819 2 3031609. 654113. 3685723. 4. 80.0 136567. 90465. 0.9656 2824754. 625788. 3450542. 4. 4 . 79.0 135979 90465 0.9615 819 4 2751367. 611254. 3362621. 79.0 4. 135493. 4. 90465. 0.9580 819 5 2710398. 605888. 3316286. 79.0 135231. 90465. 0.9562 819 6 3472536. 712725. 4185261 4. 4 79 0 139575. 90465 819 7 4895288. 952448. 5847736. 4. 80.1 141426. 90465. 1.0000 819 8 5613660. 1102562 6716222. 80.3 141426. 90465. 1.0000 6122802. 819 9 1213702. 7336503. 4. 4. 81.0 141426. 90465 1.0000 81910 6208665. 1239796. 7448460. 4. 80.4 141426. 90465. 1 0000 81911 6379204 1272526. 7651730. 141426. 90465. 1.0000 81912 6527596. 1316968. 7844564. 4. 4. 81.7 141426. 90465. 1.0000 81913 6886882. 1405727. 8292609. 4. 83.8 141426. 90465 1.0000 R1914 6712683 1386316. 8098998 141426. 82.8 90465. 1,0000 81915 6310945. 1279852. 7590797 4. 4. 81.4 141426. 90465. 1.0000 81916 5313110. 1051291. 6364402. 4. 4. 79.9 141426 90465 1.0000 81917 4922273. 963622. 5885894. 141426. 80.1 90465. 1.0000 81918 4453642. 879778. 5333420 4. 4. 77.9 141426 90465. 1.0000 81919 3853985. 765521. 4619506. 4. 4. 77.1 141426. 90465. 1.0000 81920 3572672. 718228 4290899 141426. 90465. 1.0000 81921 3253499. 662527. 3916027 4. 4. 73.2 141426 90465. 1.0000 81922 2999245. 3619017. 4. 4. 72.1 141426. 90465. 1.0000 81923 2720708 580004 3300711. 141146. 90465. 0.9980 81924 2453723. 544165. 2997888 4 4 69.0 141355 90465. 0.9995

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/18/1996

2: 7:39 PDL RUN 1

ENTECH ENGINEERING

PA

19603

544165.

910054.

482605.

1502584.

44524840.

927601.

1405727.

21841304

2997888.

8292609.

5374439.

2360416.

8784353.

5462181.

262184656.

128986520

4.

96.

192.

4.

4.

96.

4.

192.

4.

69.0

83.8

78.5

69.0

78.8

3783.8

1884.3

135231.

141426.

140228.

135231.

141426.

6729621.

140200.

3365477.

90465.

90465.

2171169.

90465.

90465

90465.

4342338.

90465.

0.9562

1.0000

0.9915

0.9562

1.0000

47.5839

0.9913

23.7967

READING.

DAILY SUMMARY (AUG 19) 2453723.

MONTHLY SUMMARY (AUG)

6886882

1877811. 7281769.

217659808.

4534580.

107145208.

MX

SM

AV

MX

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ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/18/1996 2: 7:39 PDL RUN 1 READING. PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 - HOURLY-REPORT RP 1 PAGE 7- 1 HERM-CEN HERM-CEN COOLING-COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWR LOAD BLECTRIC LOAD SIZES MINIMUM TOWER PAN PIMP FRAC HR USB RUNNING CELL NO. TEMP BLBC BLEC FANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT. ----(1) ----(3) ----(1) ----(6) ----(9) ----(19) ---- (20) ---- (21) ---- (23) 10 9 1 302722 142762. 445485. 65.0 106791. 90465. 0.7551 10 9 2 302722. 142762. 445485. 4. 4. 65.0 106791. 90465. 0.7551 10 9 3 302722. 142762. 445485. 4. 65.0 106791. 4. 90465 0.7551 10 9 4 302722. 142762 445485. 65.0 106791. 90465. 0.7551 10 9 5 302722. 142762. 445485. 4. 65.0 106791. 90465. 0.7551 302722. 142762. 445485. 4. 4. 65.0 106791 90465. 0.7551 10 9 7 310268. 146328. 456596. 4. 65.0 106960. 90465. 0.7563 10 9 8 350550. 165372. 515923. 4. 65.0 107849. 90465. 0.7626 361058. 170342. 10 9 9 531399. 4. 4. 65.0 108078. 90465 0.7642 10 910 375266 177062. 552328. 65.0 108385. 4. 90465. 0.7664 10 911 335382. 158200. 493581. 4. 65.0 107516. 90465. 0.7602 10 912 322481. 152101. 474582. 4. 4. 65.0 107231. 90465. 0.7582 10 913 343681. 162124. 505805. 4. 4. 65.0 107698. 90465. 0.7615 10 914 379552 179090 558643. 4. 65.0 108478. 90465. 0.7670 10 915 347345. 163856. 511201. 4. 4. 65.0 107779. 90465. 0.7621 10 916 387722. 182955. 570677. 4. 4. 65.0 108653. 90465. 0.7683 10 917 339555. 160173. 499728. 4. 65.0 107608. 90465. 0.7609 10 918 341501. 161093. 502594. 4. 4. 65.0 107651 90465. 0.7612 10 919 311592. 146954. 4. 65.0 106989. 90465. 0.7565 10 920 321309. 151547. 472857. 4. 65.0 107205. 90465. 0.7580 10 921 302722. 142762. 445485. 4. 4. 65.0 106791 90465. 0.7551 10 922 302722 142762. 445485. 4. 65.0 106791. 90465. 0.7551 10 923 302722. 142762. 445485 4. 65.0 106791. 90465. 0.7551 145952. 455424. 4. 4. 65.0 106942 90465. 0.7562 DAILY SUMMARY (OCT 9) 302722. 142762. 445485. 106791. 65.0 90465. 0.7551 MX 387722. 182955. 570677. 108653. 90465. 0.7683 SM 7861235. 3708009. 11569244 96. 96. 1560.0 2576145. 2171169. 18.2154 AV 327551. 482052. 4. 65.0 107339. 90465. 0.7590

BZDOE - ELITE SOPTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 2: 7:39 PDL RUN 1 READING, 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 - HOURLY-REPORT PAGE 8- 1 -----HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWR TWR LOAD BLECTRIC LOAD SIZES MINIMUM TOWER PAN PUMP FRAC HR USR RUNNING CELL NO. TEMP BLBC BLEC PANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT.T ----(1) ----(3) ----(1) ----(6) ----(9) ----(19) --- (20) ---- (21) ---- (23) 1010 1 302722. 142762. 445485. 4. 4. 65.0 106791. 90465 0.7551 1010 2 302722. 142762. 445485. 4. 4. 65.0 106791. 90465. 0.7551 1010 3 302722. 142762. 445485. 65.0 106791. 90465. 0.7551 1010 4 302722. 142762. 445485 4 65.0 106791. 90465. 0.7551 142762. 1010 5 302722. 445485. 4. 4. 65.0 106791. 90465 0.7551 1010 6 302722 142762. 445485. 4. 65.0 106791. 90465. 0.7551 1010 7 302722. 142762. 445485 4. 65.0 106791. 90465. 0.7551 1010 8 353627. 166827. 520455. 4. 4. 65.0 107916. 90465. 0.7631 1010 9 410347. 193662. 604009. 4. 65.0 109135. 90465. 0.7717 101010 317377. 149688. 467065. 4. 65.0 107118. 90465. 0.7574 101011 186932. 583059. 4. 4. 65.0 108833 90465 0.7695 101012 353404. 166722. 520126. 4. 4. 65.0 107911. 90465. 0.7630 101013 302722. 142762. 445485. 4. 106791. 90465. 0.7551 101014 310630. 146499. 457129. 4. 4. 65.0 106968 90465. 0.7564 101015 333411. 157268. 490679. 4. 4. 65.0 107473. 90465. 0.7599 101016 316320. 149189 465509. 65.0 107095. 90465. 0.7572 101017 302722. 142762. 445485. 4. 65.0 106791. 90465. 0.7551 101018 302722. 142762. 445485. 4. 4. 65.0 106791. 90465 0.7551 101019 302722 142762 445485. 65.0 106791. 90465. 0.7551 101020 302722. 142762. 445485. 4. 4. 65.0 106791 90465. 0.7551 101021 303316 143043. 446359. 4. 65.0 106805. 4. 90465 0.7552 101022 302722. 142762 445485 90465. 0.7551 302722. 142762. 445485. 4. 4. 65.0 106791 90465 0.7551 445485. 101024 302722. 142762. 4. 4. 65.0 106791. 90465 0.7551 DAILY SUMMARY (OCT 10) MN 302722. 142762 445485. 4. 65.0 106791. 90465. 0.7551 MX 410347. 193662. 604009. 4. 65.0 109135. 90465. 0.7717 7635397. 3601262. 11236656. 96. 96. 1560.0 2571125 2171169 18.1799 ΔV 318142. 150053. 468194. 4. 65.0 107130. 90465. 0.7575 MONTHLY SUMMARY (OCT) MIN 302722 142762 445485. 65.0 106791. 90465. 0.7551 MX 410347. 193662. 109135. 604009 4. 4. 65.0 90465. 0.7717 SM 15496632. 7309271. 22805900. 192. 192. 3120.0 5147270. 4342338 36.3954 AV 322847. 152276. 475123 65.0 107235. 90465. 0.7582 VERDI.V SUMMARY 302722. 142762. MIN 445485 4. 64.7 106791. 90465. 0.7551 7281769. 1507925. 8784353. 4. 4. 85.5 141426 90465 1.0000 SM 561717696 121525072 683242688 768. 768. 13882.7 24750108. 17369352. 175.0034 AV 2925613. 632943. 3558556. 4. 72.3 128907. 90465. 0.9115

ENTECH ENGINEERING

ENTECH ENGINEERING

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT BEPS ESTIMATED BUILDING ENERGY PERFORMANCE

RECORD - BUILDING ENERGY PERFORMANCE

RECORD - BUILDING ENERGY PERFORMANCE

DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1
FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
WEATHER FILE- NEWADW M.Y EZDOE - ELITE SOPTWARE DEVELOPMENT INC

ENERGY TYPE IN SITE MBTU - CATEGORY OF USE	ELECTRICITY	FUBL-OIL
SPACE HEAT	229.01	5128.55
SPACE COOL	2659.66	0.00
HVAC AUX	5352.53	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.61	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.42	0.00
TOTAL	23021.24	5128.55

TOTAL SITE ENERGY 28149.62 MBTU 85.4 KBTU/SQFT-YR GROSS-AREA 85.4 KBTU/SQFT-YR NET-AREA 225.4 KBTU/SQFT-YR GROSS-AREA 225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING **EZDOE** - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOL RP_1 - HOURLY-REPORT PAGR 1- 1 MMDDHH HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWP TWR MINIMUM LOAD BLECTRIC LOAD SIZES TOWER PAN PIMP PRAC HD USB RUNNING CELL NO. TEMP BLEC FANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/KR FRAC.OR MULT. ----(1) ----(3) 292245. ----(1) ----(6) ----(9) ---- (19) ---- (20) ---- (21) ---- (23) 525 1 618332. 910577 4. 4. 65.0 16184. 525 2 411510. 194213. 605723. 4. 4. 65.0 15590. 90465 0.8818 525 3 437646 206585. 644231. 15668. 90465. 0.8863 525 4 459344. 216860 676205 4. 65.0 15732. 0.8899 525 5 431755. 203796. 635551. 65.0 15650. 90465. 0.8853 525 6 631318. 298410. 929728. 65.0 16219. 90465. 0.9175 525 7 1706845 450241. 2157086. 4. 65.0 36892. 90465. 0.1553 525 8 2762013. 567236. 3329249. 4. 65.0 95720. 90465. 0.6306 525 9 3854814. 716778. 4571592. 4. 4. 65.0 138699. 90465. 0.9780 52510 4301003. 786343 5087345. 141426. 90465. 1.0000 52511 4666796. 847285. 5514080 4. 65.8 141426. 90465. 1.0000 52512 884564. 5754538. 4. 4. 66.3 141426. 90465. 1.0000 52513 5409071. 984728. 6393799. 68.6 141426. 90465. 1.0000 52514 4793663 879746. 5673409. 4. 67.3 90465. 1.0000 4132488. 765379. 4897868. 4. 4. 64.7 141426. 90465. 1.0000 52516 3212557. 624823. 3837380. 4. 4. 65.0 129284. 90465 0.9019 52517 2672214. 556242. 3228457. 90465. 0.8554 52518 2226339. 504528. 2730867. 4. 4. 65.0 122077. 90465. 52519 1382371. 419556. 1801927. 4. 65.0 81590. 90465. 0.5165 52520 1186833. 402250. 1589082. 4. 4. 65.0 70469. 0.4266 52521 1013197. 387625. 1400821. 65.0 35360. 90465 0.1429 52522 848518 374397 1222915. 90465. 0.0481 762992. 360986. 1123978. 4. 65.0 17661. 90465 0.9990 52524 654281. 309315. 963596. 16281. 90465. 0.9210 DAILY SUMMARY (MAY 25) MN 411510. 194213 605723. 4. 4. 64.7 15590. 90465. 0.0481 5409071. 984728. 6393799. 4. 4. 68.6 141426. 90465. 1.0000 SM 53445864. 12234129. 65680004. 96. 1567.8 1834806. 2171169 18.7951

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ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 2:10:24 PDL RUN 1
PRADING PA 1963 Allo S PT MONNOITH - MYED CENTED N.I. FTMOROGO - SIM MCA HZD CHILV M COR SCHOOL

RRA	DING, PA	19603	4130.05 PT	MONIMOTET	H - MYRR (ENTER NJ	FTMOACO - SIM M	MCA HOD ONTLY W	1:IU:Z4 PDL KUN
RP_1		LY-REPORT					111.011.00	101 1120 UND: 11	PAGE 2-

	HERM-CEN	HERM-CEN	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-
	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	TWR	TWR	TWR
	LOAD	BLECTRIC	LOAD	SIZES	MINIMUM	TOWER	PAN	PUMP	FRAC HR
		USB		RUNNING	CELL NO.	TEMP	BLEC	BLBC	FANS RUN
	BTU/HR	BTU/HR	BTU/HR			P	BTU/HR	BTU/HR	FRAC.OR
									MULT.
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	
526 1	624341.	295098.	919438.	4.	4.	65.0	16200.	90465.	0.9164
526 2	578325.	273260.	851585.	4.	4.	65.0	16074.	90465. 90465.	0.9092
526 3	578325. 470532.	273260. 222160.	692692.	4.	4.	65.0	15765.	90465.	0.8918
526 4		201711.	629063.	4.	4.	65.0	15637. 15666. 22932.	90465.	0.8845
526 5	427352. 436795.	201711. 206182.	642977.	4.	4.	65.0	15666	90465.	0.8861
526 6	838944.	373647.	1212591	4.	4.	65.0	22932	90465.	0.0425
526 7	3627962.	683317.	4311280	4.	4.	68.7	141426.	90465.	1.0000
526 8	4515940.	683317. 832542.	5348482	4	4	72 3	141426. 141426.		1.0000
526 9	4959050.	925133.	5884183	4	4	74 5	141426. 141426. 141426. 141426. 141426.	90465.	1.0000
52610	5139727.	970342.	6110069	. A	4	75.6	141426.	90465.	1.0000
52611	5441774.	1035158.	6476932	4	4	76.8	141426.	90465.	1.0000
52612	5838525.	1124508.	6963033	4	4	78.3	141426.	90465.	1.0000
52613	6225351.	1218847.	7444100	4	4	70.2	141426.	90465.	1.0000
52614	6348487.	1258375.	7606862	4.	7.	79.0	141426.	90465.	1.0000
52615	6132609.	1211687.	7344206	7.	1.	90.3	141426.	90465.	1.0000
52616	5372993.	1054609.	6427603	7.	4	70.3	141426.	90465.	
52617	4961285.	065907	6927603.	7.	7.	77.1	141426.	90465.	1.0000
52618	4347851.	965807. 846228.	5927092.		4.	77.1	141426.	90465.	1.0000
52619	3761942.	745037	3194078.	4.	4.	76.9	141426.		1.0000
52620	3355095.	745937. 681606.	400/000.		4.	76.2	141426.	90465.	1.0000
52621	3099357.	664606.	4036701.	4.	4.	76.0	137092.	90465.	0.9650
52622		644638. 627077.	3/43995.	4.	•	75.0	132873.	90465.	0.9309
52622	3000988.	583710.	3628066.	4.	4.	75.0	132873. 129175. 121628.	90465.	0.9010
		563710.	3252065.	4.	4.	74.0	121628.	90465.	0.8400
52624	2508545.	560278.	919438. 851585. 692692. 629063. 642977. 1212591. 4311280. 5348482. 5884183. 610069. 6476932. 6963033. 7444198. 7606862. 7344296. 6427603. 5927092. 5194078. 4507880. 4036701. 3743995. 3628066. 3252065.	4.	4.	74.0	114977.	90465.	0.7863
DAILY S	SUMMARY (MAY 26)								
MIN	427352.	201711.	629063.	4.	4.	65.0	15637.	90465.	0.0425
MX	6348487.	1258375.	7606862.	4.	4.	80.3	141426.	90465	1.0000
SM	6348487. 84682128.	17541858.	102223976.	96.	96.	1759.9	2576562.	2171169.	21.9537
AV	3528422.	730911.	4259333.	4.	4.	73.3	15637. 141426. 2576562. 107357.	90465.	0.9147
MONETO									
	SUMMARY (MAY)	10400	*****		_	44 -			
MIN	411510.	194213.	605723.	4.	4.	64.7	15590. 141426.	90465.	0.0425
MX	6348487.	194213. 1258375. 29775988.	7606862.	4.	4.	80.3	141426.	90465.	1.0000
SM	138128000.	29775988. 620333.	167903984.	192.	192.	3327.7	4411369.	4342338.	40.7488
AV	2877667.	620333.	3498000.	4.	4.	69.3	91904.	90465.	0.8489

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1
READING, PA 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1

P_1 									PAGE 3-
	HERM-CEN	HERM-CEN	COOLING-		COOLING-		COOLING-	COOLING-	COOLING-
	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	TWR	TWR	TWR
	LOAD	ELECTRIC	LOAD	SIZES	MUMINIM	TOWER	FAN	PUMP	FRAC HR
		USE		RUNNING	CELL NO.	TEMP	ELEC	BLEC	FANS RUN
	BTU/HR	BTU/HR	BTU/HR			P	BTU/HR	BTU/HR	FRAC.OR
									MULT.
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)
613 1	1978521.	499272.	2477793.	4.	4.	74.0	90758.	90465.	0.5905
613 2	1961302.	497405.	2458708.	4.	4.	74.0	89898.	90465.	0.5836
613 3	1876837.	488353.	2365190.	4.	4.	74.0	85612.	90465.	0.5490
613 4	1812907.	481616.	2294523.	4.	4.	74.0	82288.	90465.	0.5221
613 5	1836007.	484039.	2320046.	4.	4.	75.0	76921.	90465.	0.4787
613 6	2841241.	605906.	3447147.	4.	4.	75.0	123138.	90465.	0.8522
613 7	4415719.	842722.	5258441.	4.	4.	77.0	141426.	90465.	1.0000
613 8	5238986.	1004274.	6243259.	4.	4.	78.9	141426.	90465.	1.0000
613 9	5833208.	1139176.	6972384.	4.	4.	80.6	141426.	90465.	1.0000
61310	6349579.	1267680.	7617259.	4.	4.	82.2	141426.	90465.	1.0000
61311	6600368.	1341880.	7942248.	4.	4.	82.6	141426.	90465.	1.0000
61312	7022062.	1448864.	8470926.	4.	4.	84.0	141426.	90465.	1.0000
61313	6994234.	1458491.	8452724.	4.	4.	82.4	141426.	90465.	1.0000
61314	7271629.	1507925.	8779554.	4.	4.	83.6	141426.	90465.	1.0000
61315	6310310.	1287850.	7598160.	4.	4.	79.0	141426.	90465.	1.0000
61316	5762688.	1125281.	6887969.	4.	4.	78.1	141426.	90465.	1.0000
61317	5415416.	1047087.	6462502.	4.	4.	80.0	141426.	90465.	1.0000
61318	4953252.	970333.	5923585.	4.	4.	78.5	141426.	90465.	1.0000
61319	4347997.	851085.	5199081.	4.	4.	77.7	141426.	90465.	1.0000
61320	3921492.	775505.	4696997.	4.	4.	77.2	141426.	90465.	1.0000
61321	3655017.	731102.	4386119.	4.	4.	76.9	141426.	90465.	1.0000
61322	3392706.	690490.	4083196.	4.	4.	76.0	138458.	90465.	0.9760
61323	3221664.	661677.	3883340.	4.	4.	76.0	132449.	90465.	0.9275
61324	3054979.	638549.	3693528.	4.	4.	76.0	126400.	90465.	0.8786
DAILY	SUMMARY (JUN 13)								
MN	1812907.	481616.	2294523.	4.	4.	74.0	76921.	90465.	0.4787
MX	7271629.	1507925.	8779554.	4.	4.	84.0	141426.	90465.	1.0000
SM	106068112.	21846556.	127914696.	96.	96.	1872.8	3067319.	2171169.	21.3582
AV	4419505.	910273.	5329779.	4.	4.	78.0	127805.	90465.	0.8899

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1 19603 READING, 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PA - HOURLY-REPORT PAGE 4- 1 _ HERM-CRN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING. COOLING-T-CHLR T-CHLR TWR TWR TWR TWR TWR TWR TWR TOWER LOAD BLECTRIC LOAD SIZES MINIMUM PUMP FRAC HR TICE RUNNING CELL NO. TEMP RLRC RLEC PANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT. ----(1) ----(3) ----(1) ----(6) ----(9) ---- (19) ---- (20) ----(21) 2812733 614 1 606183 3418916. 4. 4. 76.0 117013. 90465. 0.8027 614 2 2660563. 586604. 75.0 116068. 3247167. 4. 4. 90465. 0.7951 614 3 2611037. 576516. 3187552. 76.0 108472. 90465. 0.7337 614 4 2477601 563827. 3041428. 76.0 102758. 90465. 0.6875 614 5 2410466. 555678. 2966144. 4. 4. 76.0 99712. 90465. 0.6629 3401448. 687409. 4088857. 4. 4. 77.0 134156. 90465. 0.9412 614 7 4922452 944387. 5866839. 79.3 141426. 90465. 1.0000 614 8 5780206. 1130959. 6911166. 4. 4. 81.3 141426. 90465. 1.0000 614 9 90465. 5858298. 1165021. 7023318. 79.9 141426. 4. 4. 1.0000 61410 6107864 1206654 7314518. 80.2 141426. 1.0000 6083711. 4. 4. 61411 1204473. 7288184 4. 79.4 141426. 90465. 1.0000 61412 1283649. 7750214. 141426. 90465. 4. 80.8 1.0000 61413 6792395. 1373430. 8165825. 82.8 141426. 90465. 1.0000 61414 6678760. 1367614. 8046374 4. 4. 81.9 141426. 90465. 1.0000 61415 5432629. 1080210. 6512839. 78.4 90465. 4. 4. 141426. 1.0000 61416 4474579 872512. 5347091. 73.9 141426. 90465. 1.0000 61417 3608903. 708528. 4317432. 4. 4. 69.5 141426. 90465. 1.0000 61418 1875511. 476006. 2351517. 65.0 106984. 4. 4. 90465. 0.7217 61419 1116705 396259. 1512964. 18110. 0.0035 61420 874478. 376441. 1250918. 4. 4. 65.0 25526. 90465. 0.0634 61421 734309. 347344. 1081653. 17600. 4. 4. 65.0 90465. 0.9955 61422 476221. 224855. 701076. 17011. 0.9622 61423 311525. 146922. 458447. 4. 4. 65.0 15279 90465. 0.8643 61424 396137. 186937. 583074. 4. 4. 65.0 15543. 90465. 0.8792 DAILY SUMMARY (JUN 14) 146922. 458447. 65.0 15279. 90465. 0.0035 МX 6792395. 1373430. 8165825. 82.8 141426. 90465. 1.0000 SM 84365104. 18068416. 102433504. 96. 96. 1778.5 2171169. 2449923. 20.1131 AV 3515213. 752851. 4. 90465. 0.8380 MONTHLY SUMMARY (JUN) 311525. 7271629. MN 146922 458447. 4. 65.0 15279. 90465. 0.0035

MX

AV

190433216.

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	DING, PA		4130.05 FI	. MONMOUT	H - MIEK C	ENIBR, NJ	FTMOACO - SIM M	CA H20 ONLY W			
?_1 	- HOUR	LY-REPORT							PA	GB 5-	•
	HERM-CEN	HERM-CEN	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-		
	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	TWR	TWR	TWR		
	LOAD	BLECTRIC	LOAD	SIZES	MINIMUM	TOWER	FAN	PUMP	FRAC HR		
		USE		RUNNING	CELL NO.	TEMP	BLBC	RTRC	FANS RUN		
	BTU/HR	BTU/HR	BTU/HR			P	BTU/HR	BTU/HR	FRAC.OR		
									MULT.		
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)		
818 1	2536384.	563673.	3100056.	4.	4.	74.0		90465.	0.7956		
818 2	2334174.	539448.	2873622.	4.	4.	73.0	113332.	90465.	0.7730		
818 3	2237630.	525018.	2762648.	4.	4.	73.0	108996.	90465.	0.7379		
818 4	2064430.	505578.	2570008.	4.	4.	72.0	107394.	90465.	0.7250		
818 5	1877811.	482605.	2360416.	4.	4.	71.0	105148.	90465.	0.7068		
818 6	2772317.	583158.	3355475.	4.	4.	72.0	135843.	90465.	0.9549		
818 7	4335458.	815039.	5150497.			75.2	141426.	90465.	1.0000		
818 8	5256840.	996690.	6253530.	4.	4.	78.1	141426.	90465.	1.0000		
818 9	5808053.	1127677.	6935730.	4.	4.	79.0	141426.	90465.	1.0000		
81810	6218376.	1223490.	7441865.	4.	4.	80.4	141426.	90465.	1.0000		
81811	6601525.	1324143.	7925668.	4.	4.	81.8	141426.	90465.	1.0000		
81812	6680344.	1356615.	8036959.	4.	4.	81.1	141426.	90465.	1.0000		
81813	7079866.	1446835.	8526701.	4.	4.	81.7	141426.	90465.	1.0000		
81814	7281769.	1502584.	8784353.		4.	83.6	141426.	90465.	1.0000		
81815	6946938.	1441591.	8388528.	4.	4.	85.5	141426.	90465.	1.0000		
81816	5940299.	1224131.	7164430.	4.	4.	84.1	141426.	90465.	1.0000		
81817	5673811.	1151062.	6824874.		4.	83.7	141426.	90465.	1.0000		
81818	5161632.	1040863.	6202494.	4.	4.	83.0	141426.	90465.	1.0000		
81819	4581775.	923552.	5505327.	4.	4.	82.3	141426.	90465.	1.0000		
81820	4249036.	858486.	5107522.	4.	4.	81.0	141426.	90465.	1.0000		
81821	4032552.	813154.	4845706.		4.	81.0	139584.	90465.	0.9851		
81822	3817701.	777868.	4595569.	4.	4.	81.0	132694.	90465.	0.9294		
81823	3615632.	745860.	4361492.	4.	4.	81.0	125774.	90465.	0.8735		
81824	3410250.	714421.	4124671.	4.	4.	81.0	118273.	90465.	0.8129		
DAILY S	SUMMARY (AUG 18)										
MIN	1877811.	482605.	2360416.	4.	4.	71.0	105148.	90465.	0.7068		
MX	7281769.	1502584.	8784353.			85.5		90465.	1.0000		
SM	110514592.	22683538.	133198136.			1899.6	3183145.	2171169.	22.2942		
AV	4604775.	945147.	5549923.			79.1	132631.	90465.	0.9289		

ENTECH ENGINEERING BEDOE - KLITE SOPTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

READ		19603	4130.05 FT	. MONMOUI	n - misk (BRIBE, NO I	PTMOACO - SIM M	ICA H20 ONDI W	PAGE
_1	- HOU	RLY-REPORT							
	HBRM-CEN	HERM-CEN	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-	COOLING-
	T-CHLR	T-CHLR	TWR	TWR	TWR	TWR	TWR	TWR	TWR
	LOAD	BLECTRIC	LOAD	SIZES	MINIMUM	TOWER	PAN	PUMP	PRAC HR
		USB		RUNNING	CELL NO.	TEMP	BLBC	BLBC	FANS RUN
	BTU/HR	BTU/HR	BTU/HR			F	BTU/HR	BTU/HR	FRAC.OR
									MULT.
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)
819 1	3153977.	676731.	3830708.	4.	4.	80.0	112520.	90465.	0.7664
819 2	3031609.	654113.	3685723.	4.	4.	80.0	107338.	90465.	0.7245
819 3	2824754.	625788.	3450542.	4.	4.	79.0	103213.	90465.	0.6912
819 4	2751367.	611254.	3362621.			79.0	99803.	90465.	0.6636
819 5	2710398.	605888.	3316286.		4.	79.0	97969.	90465.	0.6488
819 6	3472536.	712725.	4185261.		4.	79.0	128439.	90465.	0.8950
819 7	4895288.	952448.	5847736.			80.1	141426.	90465.	1.0000
819 8	5613660.	1102562.	6716222.			80.3	141426.	90465.	1.0000
819 9	6122802.	1213702.	7336503.			81.0	141426.	90465.	1.0000
81910	6208665.	1239796.	7448460.			80.4	141426.	90465.	1.0000
81911	6379204.	1272526.	7651730.			81.4	141426.	90465.	1.0000
81912	6527596.	1316968.	7844564.			81.7	141426.	90465.	1.0000
81913	6886882.	1405727.	8292609.			83.8	141426.	90465.	1.0000
81914	6712683.	1386316.	8098998.			82.8	141426.	90465.	1.0000
81915	6310945.	1279852.	7590797.			81.4	141426.	90465.	1.0000
81916	5313110.	1051291.	6364402.			79.9	141426.	90465.	1.0000
81917	4922273.	963622.	5885894.			80.1	141426.	90465.	1.0000
81918	4453642.	879778.	5333420.			77.9	141426.	90465.	1.0000
81919	3853985.	765521.	4619506.			77.1	141426.	90465.	1.0000
81920	3572672.	718228.	4290899.			75.2	141426.	90465.	1.0000
81921	3253499.	662527.	3916027.			73.2	141426.	90465.	1.0000
81922	2999245.	619772.	3619017.			72.1	141426.	90465.	1.0000
81923	2720708.	580004.	3300711.			71.0	139462.	90465.	0.9841
81924	2453723.	544165.	2997888.				140928.	90465.	0.9960
DAILY S	UMMARY (AUG 19)							
MN	2453723.	544165.	2997888.	4	. 4.	69.0	97969.	90465.	0.6488
MX	6886882.	1405727.	8292609.	. 4.	. 4.	83.8	141426.	90465.	1.0000
SM	107145208.	21841304.	128986520.	96	. 96.	1884.3	3192497.	2171169.	22.3698
AV	4464384.	910054.	5374439	4.	. 4.	78.5	133021.	90465.	0.9321
MONTHLY	SUMMARY (AUG)								
MN	1877811.	482605.	2360416		. 4.		97969.	90465.	0.6488
MX	7281769.	1502584.	8784353	. 4.			141426.	90465.	1.0000
SM	217659808.	44524840.	262184656	192	. 192.	3783.8	6375641.	4342338.	44.6640
AV	4534580.	927601.	5462181.	. 4	. 4.	78.8	132826.	90465.	0.9305

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1 READING, 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 - HOURLY-REPORT HERM-CEN HERM-CEN COOLING-COOLING- COOLING- COOLING-COOLING-COOLING-COOLING-T-CHLR BLECTRIC T-CHLR TWR TWR TWR TWR TWR TWR LOAD LOAD SIZES MINIMUM TOWER PAN PIIMP PRAC HR USE RUNNING CELL NO. ELEC TEMP RLEC PANS RUN BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR FRAC.OR MULT. ----(1) ----(3) ----(1) ----(6) ----(9) ----(19) ---- (20) ---- (21) ---- (23) 10 9 1 302722. 142762. 445485. 4. 4. 65.0 15251. 90465. 0.8627 10 9 2 302722. 142762. 445485. 65.0 15251. 90465. 0.8627 10 9 3 302722. 142762. 445485. 4. 65.0 15251. 90465. 0.8627 10 9 4 302722. 142762. 445485. 4. 4. 65.0 15251. 90465. 0.8627 10 9 5 302722. 142762. 445485. 65.0 15251. 90465. 0.8627 10 9 6 302722. 142762. 445485. 65.0 15251. 90465. 0.8627 10 9 7 310268. 146328. 456596. 4. 4. 65.0 15275 90465 0.8641 10 9 8 350550. 165372. 515923. 4. 65.0 15402. 90465. 0.8713 531399. 552328. 10 9 9 361058. 170342. 65.0 15435. 90465. 10 910 375266. 177062. 4. 4. 65.0 15479. 90465. 0.8756 10 911 335382. 158200. 493581. 4. 4. 65.0 15355. 90465. 0.8686 10 912 322481. 152101. 474582. 65.0 15314. 90465. 0.8663 10 913 343681. 162124. 505805. 4. 4. 65.0 15381. 90465. 0.8700 379552. 179090. 558643. 4. 4. 65.0 15492. 90465. 0.8763 347345. 387722. 10 915 163856. 511201. 65.0 15392. 90465. 0.8707 10 916 182955. 4. 570677. 4. 65.0 15517 90465. 0.8778 339555. 160173. 499728. 65.0 15368. 4. 90465. 0.8693 10 918 341501. 161093. 502594 65.0 15374. 90465. 0.8697 10 919 311592. 146954. 458545. 4. 4 . 65.0 15280. 90465 0.8643 10 920 321309. 151547. 472857. 4. 15310. 90465. 0.8661 10 921 302722. 142762. 445485. 4. 4. 65.0 15251. 90465. 0.8627 10 922 142762. 445485. 4. 4. 65.0 15251. 90465. 0.8627 10 923 302722 142762. 445485. 90465. 0.8627 10 924 309472. 145952. 455424. 4. 65.0 15273. 90465. 0.8639 DAILY SUMMARY (OCT 9)

302722.

387722.

7861235.

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MN

SM AV 142762.

182955.

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ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1

_1	DING, PA = HOUR	19603 LY-REPORT	4130.03 11				INDACO DIN I	ich ille ondi ii	PAGE 8
	HERM-CEN	HERM-CEN	COOLING-		COOLING-				
	T-CHLR	T-CHLR	TWR	TWR	TWR	COOLING-	COOLING- TWR	COOLING-	COOLING-
	LOAD	ELECTRIC	LOAD	SIZES				TWR	TWR
	DOAD	USE	LOAD		MINIMUM	TOWER	PAN	PUMP	FRAC HR
	BTU/HR		BTU/HR	RUNNING	CELL NO.	F	BLEC	BLBC	PANS RUN
	BIU/RK					_	BTU/HR	BTU/HR	FRAC.OR
	(1)	(2)	/ 1)	(()	/ 0)	(10)	(20)	(21)	MULT.
10 1		142767	445405	(6)	(9)	(19)	(20)	(21) 90465.	
10 2	302722. 302722.	142762. 142762.	445485.	4.		65.0	15251.	90465.	
10 2	302722.	142762.	445405	3.	4.	65.0	15251. 15251. 15251.		0.8627
10 4	302722. 302722.	142762. 142762.	445485.	4.	•	65.0	15251.	90465.	0.8627
	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
)10 5)10 6	302722. 302722.	142762. 142762.	445485.	4.	•	65.0	15251.	90465.	0.8627 0.8627
10 6		142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
	302722.	142/62.	445485.	4.	4.	65.0	15251.	90465.	0.8627 0.8718
10 8	353627. 410347.	166827. 193662.	520455.	4.	4.	65.0	15412.	90465.	
10 9	410347.	193662.	604009.	4.	4.	65.0	15586.	90465.	0.8816
1010	317377. 396127.	149688. 186932.	467065.	4.	4.	65.0	15298.	90465.	0.8654
1011		186932.	583059.	4.	4.	65.0	15543.	90465.	0.8792
1012	353404.	166722. 142762. 146499.	520126.	4.	4.	65.0	15411.	90465.	0.8718
1013	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
1014	310630.	146499.	457129.	4.	4.	65.0	15277.	90465.	0.8641
1015	333411.	157268.	490679.	4.	4.	65.0	15349.	90465.	0.8682
1016	316320.	149189.	465509.	4.	4.	65.0	15295.	90465.	0.8652
1017	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627 0.8627
1018	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
1019	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627 0.8627
1020	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	
1021	303316.	143043.	446359.	4.	4.	65.0	15253.	90465.	0.8628
1022	302722. 302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627 0.8627
1023	302722.	142762. 142762. 142762. 142762. 142762. 143043. 142762.	445485.	4.	4.	65.0	15251.		
1024	302722.	142762.	(1) 445485. 445485. 445485. 445485. 445485. 604009. 467065. 583059. 520126. 445485. 457129. 490679. 465509. 445485. 445485. 445485. 445485.	4.	4.	65.0	15253. 15251. 15251. 15251.	90465.	0.8627
AILY S	UMMARY (OCT 10)								
MN	302722.	142762. 193662.	445485.	4.	4.	65.0 65.0	15251. 15586.	90465. 90465.	0.8627
MX		193662.	604009.	4.	4.	65.0	15586.	90465.	0.8816
SM	7635397.	3601262.	11236656.	96.	96.	1560.0	367192.	2171169.	20.7708
AV	318142.	150053.	445485. 604009. 11236656. 468194.	4.	4.	65.0	15300.	90465.	0.8654
ONTHLY	SUMMARY (OCT)								
MIN		142762.	445485. 604009. 22805900.	4.	4.	65.0	15251.	90465.	0.8627
MX	410347.	193662.	604009.	4.	4.	65.0	15586.	90465.	0.8816
SM	15496632.	7309271.	22805900.	192.	192.	3120.0	735101.	4342338.	41.5821
AV	322847.	152276.	475123.	4.	4.	65.0	15315.	90465.	0.8663
EARLY	SUMMARY								
MIN	302722.	142762.	445485.	4.	4.	64.7	15251. 141426. 17039352. 88747.	90465	0.0035
MX		1507925.	8784353.	4.	4.	85.5	141426.	90465	1.0000
SM		121525072.	683242688.	768.	768.	13882.7	17039352.	17369352	168.4661
AV	2925613.	632943	3550556			72.7	00747		

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IS_1	DING, PA - HOU	19603 RLY-REPORT	320130		ENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PAGE 1-
#4DDHH	1SMCAHUS ZR	2SPERFC	BSPERFC	4SPERFC	
	SUPPLY	SUPPLY	SUPPLY	SUPPLY	
	BLECTRIC	ELECTRIC	ELECTRIC	BLECTRIC	
	KM	KM	KW	KW	
	(49)	(49)	(49)	(49)	
MONTHLY	SUMMARY (JAN)				MCA System
MN	30.066	1.523	1.523	1.786	VICE SINCE
MX	30.066	1.523	1.523	1.786	1.104 242 4.
SM	14792.671	749.415	749.415	878.909	1
AV	30.066	1.523	1.523	1.786	·
*			2.525	2,,00	Acc Oca
MONTHLY	SUMMARY (FEB))
MIN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	13349.483	676.301	676.301	793.162	
AV	30.066	1.523	1.523	1.786	
ONTHLY	SUMMARY (MAR)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	14071.077	712.858	712.858	836.035	
AV	30.066	1.523	1.523	1.786	
MONTHLY	SUMMARY (APR)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	14071.077	712.858	712.858	836.035	
AV	30.066	1.523	1.523	1.786	
ONTHLY	SUMMARY (MAY)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	14792.671	749.415	749.415	878.909	
AV	30.066	1.523	1.523	1.786	
MONTHLY	SUMMARY (JUN)				
MN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	13710.280	694.579	694.579	814.599	
AV	30.066	1.523	1.523	1.786	
MONTHLY	SUMMARY (JUL)				
MIN	30.066	1.523	1.523	1.786	
MX	30.066	1.523	1.523	1.786	
SM	15153.468	767.693	767.693	900.346	
AV	30.066	1.523	1.523	1.786	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, PA RS_1 - HOURLY-REPORT PAGE 2- 1 1 SMCAHUS 2SPERFC 3SPERPC 4SPBRFC ZR SUPPLY SUPPLY SUPPLY SUPPLY BLECTRIC BLECTRIC ELECTRIC BLECTRIC KW ---- (49) ---- (49) ----(49) ----(49) MONTHLY SUMMARY (AUG) MN 30.066 1.523 1.523 1.786 1.523 1.523 1.786 SM 14071.077 712.858 712.858 836.035 ΑV 30.066 1.523 1.523 1.786 MONTHLY SUMMARY (SEP) MN 30.066 1.523 1.523 1.786 MX 30.066 1.523 1.523 1.786 712.858 SM 14071.077 712.858 836.035 ΑV 1.523 1.523 1.786 MONTHLY SUMMARY (OCT) 30.066 MN 1.523 1.523 1.786 ΜX 30.066 1.523 1.523 1.786 SM 15153.468 767.693 767.693 900.346 AV 30.066 1.523 1.523 1.786 MONTHLY SUMMARY (NOV) MN 30.066 1.523 1.523 1.786 MX 30.066 1.523 1.523 1.786 14431.874 SM 731.136 731.136 857.472 AV 30.066 1.523 1.523 1.786 MONTHLY SUMMARY (DEC) MN 30.066 1.523 1.523 1.786 МX 30.066 1.523 1.523 1.786 14792.671 749.415 749.415 SM 878.909 AV 30.066 1.523 1.523 1.786 YEARLY SUMMARY MN 30.066 1.523 1.523 1.786 ΜX 30.066 1.523 1.523 1.786 SM 172460.891 8737.077 8737.077 10246.794

AV

30.066

1.523

1.523

1.786

REAL	ENTECH DING,	PA		4130.05 F	LITE SOFTWARE C. MONMOUTH -	MYER CENTER,	NJ	PTMOACO -	SIM M	CA H2	ONLY	16:24:4 W/OA SCHD1	2 SDL	
MODHH	SSZF2M	ID	SSPZ3MID	SSZF4MID	OSMCAHUS									
					ZR									
	SUPPLY		SUPPLY	SUPPLY BLECTRIC	SUPPLY									
	ELECTR:			BLECTRIC	BLECTRIC									
	KW		KW	KW	KW.									
	(4	9)	(49)	(49)	(49)									
MONTHLY	SUMMARY	(JAN)												
MN	23	.912	29.253	29.469	17.562									
MX	23	.912	29.253	29.469	17.562									
SM	11764	.703	14392.478	29.469 14498.549	8640.309									
AV	23	.912	29.253	29.469	17.562									
MONTHLY	SUMMARY	(FEB)												
MN	23	912	29 253	29.469	17.562									
MX	23	.912	29.253	29.469 13084.057	17.562									
SM	10616	.927	12988.333	13084.057	7797 351									
AV	23	.912	29.253	29.469	17.562									
MONTHLY	SUMMARY	(MAR)												
MN				29 469	17 562									
MX	23	.912	29.253	29.469 29.469	17 562									
	11190	. 815	13690.405	13791.303	8218 829									
AV				29.469										
MONTHLY	SUMMARY	(APR)												
MIN	23	.912	29.253	29.469 29.469	17.562									
MX	23	.912	29.253	29.469	17 562									
	11190	.814	13690.405	13791.305	8218 830									
AV		.912		29.469										
MONTHLY	SUMMARY	(MAY)												
MN	23	.912	29.253	29.469 29.469	17.562									
MX	23	.912	29.253	29.469	17.562									
SM	11764	.703	14392.479	14498.549	8640.308									
AV		.912		29.469										
MONTHLY	SUMMARY	(JUN)												
MIN	23	.912	29.253	29.469 29.469	17.562									
MX	23	.912	29.253	29.469	17.562									
SM	10903	.871	13339.369	13437.680	8008.090									
AV		.912												
MONTHLY	SUMMARY													
MIN	23	912	29 252	29.469	17.562									
MX	23	.912	29.253	29.469	17.562									
SM	12051	.646	14743.514	14852.172	8851.047									
AV		.912												

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 16:24:42 SDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, RS 2 - HOURLY-REPORT SSZFZMID SSFZ3MID SSZF4MID OSMCAHUS SUPPLY SUPPLY SUPPLY SUPPLY BLECTRIC BLECTRIC BLECTRIC BLECTRIC KW KW KW ---- (49) ---- (49) ---- (49) ---- (49) MONTHLY SUMMARY (AUG) 23.912 MN 29.253 29.469 17.562 MX 23.912 29.253 29.469 17.562 SM 13791.303 11190.815 13690.406 8218.829 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (SEP) 23.912 29.469 MN 29.253 17.562 MX 23.912 29.253 29.469 17.562 SM 11190.815 13690.405 13791.303 8218.829 ΑV 29.253 23.912 29.469 17.562 MONTHLY SUMMARY (OCT) 23.912 29.253 MN 29.469 17.562 29.253 29.469 17.562 SM 12051.646 14743.514 14852.174 8851.047 ΑV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (NOV) 23.912 MN 29.253 29.469 17.562 23.912 29.253 29.469 17.562 14041.441 SM 11477.759 14144.926 8429.568 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (DEC) 23.912 29.253 29.469 29.469 MN 17.562 23.912 29.253 17.562 SM 11764.702 14392.478 14498.549 ΑV 23.912 29.253 29.469 17.562 YEARLY SUMMARY 23.912 MN 29.253 29.469 17.562 MX 23.912 29.253 29.469 169031.859 17.562 137159.203 167795.234 100733.344 AV 23.912 29.253 29.469 17.562

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1 RS_3 - HOURLY-REPORT MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER THRRMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) MN MX 71.5 73.0 75.5 74.7 71.5 75.5 72.6 75.0 35510.0 36101.0 35574.0 36066.1 ΑV 72.2 73.4 72.3 73.3 MONTHLY SUMMARY (FEB) MN 71.5 72.9 MX 75.5 74.4 75.5 74.8 SM 32182.0 32597.3 32318.0 32519.3 72.5 73.4 72.8 73.2 MONTHLY SUMMARY (MAR) 71.5 73.2 75.5 76.0 71.5 75.5 72.7 MN 76.4 SM 34330.0 34462.2 34462.0 34458.2 73.4 73.6 73.6 73.6 AV 73.6 MONTHLY SUMMARY (APR) 72.9 71.5 75.5 71.5 73.3 75.5 80.6 MN 75.5 SM 35110.0 34876.8 35018.0 34910.4 74.8 ÀΥ 74.5 75.0 74.6 MONTHLY SUMMARY (MAY) 73.5 71.5 71.5 73.2 MN 75.5 75.5 94.5 94.4 SM 37126.0 37292.4 37142.0 37430.1 AV 75.5 75.8 75.5 76.1 MONTHLY SUMMARY (JUN) 75.5 75.5 74.1 75.9 75.5 74.3 76.8 MN 75.5 SM 34428.0 34157.5 34428.0 34331.0 AV 75.5 74.9 75.5 75.3

7**4.4** 76.**7**

75.3

75.5

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75.5

MONTHLY SUMMARY (JUL)

MN

SM

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74.2 75.9

75.0

38052.0 37801.7 38052.0 37965.0

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1

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ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 16:24:42 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
S_3 = HOURLY-REPORT PAGE 2- 1

1EXTPER 1EXTPER 1INTPER 1INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ---(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) 75.5 73.9 75.5 76.0 75.**5** 74.1 75.**5** 76.4 MN SM 35334.0 35068.0 35334.0 35191.7 75.2 AV 75.5 74.9 75.5 MONTHLY SUMMARY (SEP) MN 75.5 73.7 MX 75.5 75.6 75.5 75.5 73.5 76.3 SM 35334.0 34967.9 35334.0 35012.0 AV 75.**5** 74.7 75.5 74.8 MONTHLY SUMMARY (OCT) MN 71.5 72.2 71.5 71.9 MX 75.5 78.5 75.5 77.4 SM 37988.0 37540.6 37848.0 37485.4 MONTHLY SUMMARY (NOV) MN 71.5 73.2 71.5 73.1 MX 75.5 81.5 75.5 81.9 SM 35488.0 35502.4 35356.0 35494.0 AV 73.9 73.7 MONTHLY SUMMARY (DEC) MN 71.5 73.1 71.5 72.7 MX 75.5 75.0 75.5 75.0 SM 35782.0 36155.9 36082.0 36148.0 AV 72.7 73.5 YEARLY SUMMARY MN 71.5 72.2 71.5 71.9 MX 75.5 94.5 75.5 94.4 SM 426664.0 426523.8 426948.0 427011.3 74.4 74.4 74.4

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 - HOURLY-REPORT 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RS 4 MMDDHH 2EXTPER 2EXTPER 2INTPER 2INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP P P F ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 71.9 71.5 71.9 75.5 75.7 MN 71.5 75.5 75.9 SM 35246.0 35940.1 35274.0 35960.8 AV 71.6 73.0 71.7 MONTHLY SUMMARY (FEB) 71.5 72.0 71.5 72.0 75.5 75.4 75.5 76.3 31858.0 32447.7 31938.0 32486.7 MN MX AV 71.8 73.1 71.9 73.2 MONTHLY SUMMARY (MAR) 71.5 MN 71.5 72.6 72.6 81.0 MX 75.5 80.1 75.5 81.0 SM 33826.0 34445.8 33898.0 34527.9 72.3 73.6 72.4 73.8 MONTHLY SUMMARY (APR) 71.5 72.9 75.5 97.0 72.9 98.5 71.5 75.5 97.0 75.5 98.5 34778.0 37635.9 34810.0 37986.0 ΜX SM 74.3 80.4 74.4 81.2 MONTHLY SUMMARY (MAY) 71.5 67.7 75.5 102.3 103.7 75.5 102.3 75.5 103.7 36750.0 39135.3 36766.0 39408.5 MX SM ΑV 74.7 80.1 MONTHLY SUMMARY (JUN) 71.5 73.4 71.5 73.4 75.5 75.6 75.5 75.8 34420.0 33889.8 34420.0 33909.2 MX SM AV 75.5 74.3 75.5 MONTHLY SUMMARY (JUL)

73.6

74.4

MX 75.5 75.5 75.6 SM 38052.0 37521.9 38052.0 37540.6

75.5

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AV

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ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 - HOURLY-REPORT 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 R\$_4 2EXTPER 2EXTPER 2INTPER 2INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) MN 71.5 72.5 MX 75.5 75.5 71.5 75.5 72.5 75.6 SM 35282.0 34749.0 35282.0 34777.0 AV 75.4 74.2 75.4 74.3 MONTHLY SUMMARY (SEP) 71.5 71.4 71.5 71.8 75.5 74.9 75.5 75.0 35194.0 34609.1 35222.0 34646.9 MN MX SM 75.2 74.0 75.3 74.0 MONTHLY SUMMARY (OCT) 68.4 71.5 67.4 75.5 89.9 71.**5** 75.**5** MN 92.3 SM 37412.0 38115.1 37536.0 38482.9 AV 74.2 75.6 74.5 76.4 MONTHLY SUMMARY (NOV) 72.7 71.5 72.7 75.5 90.0 71.5 75.5 MN 90.7 SM 35128.0 36305.1 35228.0 36532.8 ΑV 73.2 75.6 73.4 76.1 MONTHLY SUMMARY (DEC) 72.6 71.5 72.6 75.5 79.5 71.5 75.5 MOV 80.7 SM 35366.0 36052.0 35406.0 36115.1 AV 71.9 73.4 73.3 72.0 YEARLY SUMMARY

71.5 67.8 75.5 103.7

75.4

MN

71.5 67.4 75.5 102.3

73.8

67.4

SM 423312.0 430846.8 423832.0 432374.6 AV 73.8 75.1 73.9 75.4

DOB-2.1D 7/ 2/1996 16:24:42 SDL RUN 1

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 - HOURLY-REPORT RS 5 MMDDHH BEXTPER BEXTPER BINTPER BINTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP SETPOINT TEMP P P ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 71.5 71.9 75.5 75.7 71.5 MN 71.9 ΜX 75.5 75.9 35246.0 35940.1 35274.0 35960.8 AV 71.6 73.0 71.7 MONTHLY SUMMARY (FEB) 71.5 72.0 71.5 72.0 75.5 75.4 75.5 76.3 31858.0 32447.7 31938.0 32486.7 MN MX AV 71.8 73.1 MONTHLY SUMMARY (MAR) 71.5 72.6 71.5 72.6 75.5 80.1 75.5 81.0 33826.0 34445.8 33898.0 34527.9 71.5 MY SM ΑV 72.3 73.6 72.4 MONTHLY SUMMARY (APR) 71.5 72.9 71.5 72.9 75.5 97.0 75.5 98.5 34778.0 37635.8 34810.0 37986.0 MX SM ΑV 74.3 80.4 74.4 81.2 MONTHLY SUMMARY (MAY) 67.7 102.3 71.5 75.5 71.5 67.8 75.5 102.3 75.5 103.7 36750.0 39135.4 36766.0 39408.5 MY SM 74.7 79.5 74.7 80.1 MONTHLY SUMMARY (JUN) 73.4 75.6 71.5 75.5 71.5 73.4 мx 75.5 SM 34420.0 33889.8 34420.0 33909.2 AV 74.3 75.5 75.5 74.4 MONTHLY SUMMARY (JUL) 75.5 73.6 75.5 73.6 75.5 75.5 75.5 75.5 38052.0 37522.0 38052.0 37540.6 MX SM

74.4

75.5

75.5

74.5

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1

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s_5	ENTECH READING,	PA	19603 Y-REPORT	4130.0	- ELITE SOFTWARE D5 FT. MONMOUTH -	MYBR CENTER,	NJ	FTMOACO -	SIM MC	4 H2O O	NLY W/OA	SCHD1	PAGE	2-
	3EXTPER	3EXTPER	3 INTPER											
	THERMOST	ZONE	THERMOST	ZONB										
	SETPOINT		SETPOINT											
	F	P	p	P										
	(7)	(6)	(7)	(6)										
MONTE	ILY SUMMARY	(AUG)												
M	71.5	72.5	71.5	72.5										
MD	75.5			75.6										
SI	35282.0	34749.0	35282.0	34777.0										
/A	75.4	74.2	75.4	74.3										
MONTE	ILY SUMMARY	(SEP)												
		71.4	71.5	71.8										
MO	75.5			75.0										
SN	35194.0													
A\			75.3											
MONTS	ILY SUMMARY	(OCT)												
M			71.5	69.4										
MO				92.3										
	37412.0													
	74.2													
MONTS	ILY SUMMARY	(NOV)												
		72.7	71 5	72.7										
M				90.7										
	35128.0													
			73.4											
MONTE	ILY SUMMARY	(DEC)												
MI			71.5	72.6										
MD		79.5		80.7										
SM	35366.0													
	71.9													
YKARI	Y SUMMARY													
		67.4	71.5	67.8										
M				103.7										
	423312.0													
A														

RI	RADING,	PA	19603	EZDO 4130	05 F	T. MON	MOUTH	- MYER	CENTRE	R. NJ	PTMOACO	- SIN	MCA	H20 ON	T.Y W/O	A SCHO	1		
S_6		- HOURL	Y-REPORT														PAGE	1-	
			4 INTPER	4 INTPER														••••	-
	THERMOST	ZONE	THERMOST	ZONE															
	SETPOINT	TEMP	SETPOINT	TEMP															
	P	P	P	P															
	(7)	(6)	(7)	(6)															
MONTHI	LY SUMMARY	(JAN)																	
MN	71.5	71.8	71.5	71.8															
			71.5																
SM	35178.0	35849.9	35178.0	35855.1															
AV	71.5	72.9	71.5	72.9															
MONTH	LY SUMMARY	(FEB)											,						
MN	71.5	71.9	71.5	71.9															
MIX			75.5																
			31766.0																
AV	71.5	72.9	71.5	72.9															
	LY SUMMARY																		
			71.5																
MX			75.5																
			33578.0																
AV	71.7	73.1	71.7	73.2															
	LY SUMMARY																		
MN			71.5																
MX			75.5																
			34566.0																
AV	73.7	76.6	73.9	77.0															
	LY SUMMARY																		
			71.5																
MX			75.5																
			36530.0 74.2																
AV	/4.2	76.6	74.2	76.9															
	LY SUMMARY																		
MN			71.5																
MX	_		75.5																
AV			34312.0 75.2																
MONTH	LY SUMMARY	, (TITT.)																	
MN		,	71.5	73 1															
MX			75. 5																
			38040.0																
AV		74.4																	

. R 3_6	ENTECH EADING,	PA			- ELITE SOFTWARE				
	4BXTPER	4EXTPER	4 INTPER	4INTPER		 	 	 	
	THERMOST		THERMOST SETPOINT						
	P		E SELECTIVI.						
	(7)	(6)	(7)	(6)					
HTMON	LY SUMMARY	(AUG)							
MN	71.5	71.1	71.5	71.3					
MX	75. 5	75.4		75.6					
SM	35130.0	34658.8	35154.0	34689.6					
AV	75.1	74.1	75.1	74.1					
нтиом	LY SUMMARY	(SEP)							
MN	71.5	69.3	71.5	69.7					
MX	75.5	74.8	75.5	75.0					
SM	34906.0	34459.6	34994.0	34506.8					
AV	74.6	73.6	74.8	73. 7					
момтн	LY SUMMARY	(OCT)							
MIN	71.5	62.4	71.5	63.5					
MX	75.5	82.7	75.5	83.9					
SM	36836.0	36782.7	36960.0	37049.1					
AV	73.1	73.0	73.3	73.5					
нтиом	LY SUMMARY	Y (NOV)							
MN				72.6					
MX									
	34612.0								
AV	72.1	73.9	72.2	74.0					
	TLY SUMMARY								
MIN				72.5					
MX									
	35226.0								
AV	71.6	72.9	71.6	73.0					
	Y SUMMARY								
MN				63.5					
MX		98.4							
	420512.0								
AV	73.3	74.0	73.4	74.2					

RI RS_7	RADING,	PA	RING 19603		EZDOR -	ELI	TE SO MONIM	FTWARE	B DEV	ELOPME R CENT	NT IN	iC iJ	PTMO	DOI ACO -	8-2 - Si	. 1D (M M	7/ CA. H	/ 2, 120	1996 ONLY	W/6	16 0A	:24: SCHD	1	SDI	
KG_/			Y-REPORT																					AGE	
MMDDHH	2MIDL		3MIDL																						
			THERMOST																						
	SETPOINT		SETPOINT																						
	F	F		F																					
	(7)	(6)	(7)	(6)																				
MONTHI	Y SUMMAR	(JAN)																							
MN			71.5	73	3.3																				
MX	75.5	75.3																							
SM	36454.0	36298.1	36534.0																						
AV		73.8			3.8																				
MONTHI	Y SUMMARY	(PEB)																							
MN	71.5		71.5	73	1.2																				
MX	75.5	74.9																							
SM	32970.0		33002.0	_																					
AV			74.3																						
MONTHI	Y SUMMARY	(MAR)																							
MN			71.5	73	1.4																				
MX																									
			35214.0																						
AV																									
MONTH	LY SUMMAR	(APR)																							
MIN			71.5	73	1.5																				
MX	75.5	81.3			3																				
SM	35326.0	35059.6	35326.0																						
AV			75.5																						
MONTHI	Y SUMMAR	(MAY)																							
MIN			75.5	73	8.8																				
MX	75.5	95.1	75.5	95	5.1																				
SM	37146.0	37408.5	37146.0	37411	1.0																				
AV	75.5	76.0	75. 5	76	.0																				
MONTH	Y SUMMARY	(JUN)																							
MN				74	1.3																				
MX	75. 5	75.9	75.5	75	.9																				
			34428.0																						
AV	75. 5	75.0	75. 5	75	5.0																				
	LY SUMMARY																								
MIN				74																					
MX		75.9			5.9																				
			38052.0																						
AV	75.5	75.1	75.5	75	i.1																				

R S 7	ENTECH EADING,	PA	RING 19603 Y-REPORT		EZDOR - 4130.05	FT. MONMOU	IWARE DI UTH - M	ER CENTER	r inc R, NJ	PTMOAC0	OE-2.1D - SIM M	7/ 2, ICA H20	/1996 ONLY	16:24:4: W/OA SCHD1	PAGE	
	2MIDL	2MIDL		BMIDL												
	ZMIDE	ZMIDE.	JMIDE	SHIDE												
	THERMOST		THERMOST													
	SETPOINT															
	r	P	P	P												
	(7)	(6)	(7)	(6)											
MONTH	LY SUMMARY	(AUG)														
MN		74.2	75.5	74	. 2											
MIX																
SM	35334.0															
AV																
MONTER	LY SUMMARY	(685)														
MN		74.0	75 5	74	•											
MX		75.8		75												
	35334.0															
		74.8														
MONTO !																
MN	LY SUMMARY	73.6	20.0		_											
MX				73 77												
	38052.0															
AV		74.8														
	,,,,	74.0	73.5	/ •												
HTROM	LY SUMMARY	(NOV)														
MN		73.4	71.5	73	. 4											
MX		83.3	75.5													
	36204.0															
AV	75.4	74.5	75. 5	74	. 5											
MONTH	LY SUMMARY	(DEC)														
MN	71.5	73.3	71.5	73	. 3											
MX	75.5	75.5	75.5	75	. 5											
SM	36554.0	36370.6	36606.0	36385	. 4											
AV	74.3	73.9	74.4	74	. 0											
YEARL	Y SUMMARY															
MN		73.2	71.5	73	. 2											
MX		95.1														
SM	431044.0															
AV																

	ENTECH LADING,	enginee Pa	RING 19603	BZD 413	OB - 0.05	BLI FT.	TES	OPTWAR MOUTH	B DI	YER C	PMENT	INC , NJ	FIT	D MOACO	OB-	2.1D SIM P	4CA	7/ 2 H20	/1996 ONLY	: 'W/	16 OA :	24 : 4 SCHD:	42 :	SDL	RUN	1
8_22		- HOURL	Y-REPORT																				PA	3E		
MODHH	4MIDL	AMIDL	OINTEXTP	OINTEXTP																						
			er Thermost																							
			SETPOINT F																							
	•	•	r	•																						
	(7)	(6)	(7)	(6)																						
	Y SUMMARY																									
MN			71.5																							
MX			75.5																							
SM AV			35338.0																							
AV	/1.6	73.1	71.8	73.3																						
	Y SUMMARY																									
MIN				72.9																						
MX																										
SM AV			31978.0																							
AV	/1.6	73.2	72.0	73.3																						
MONTHI	Y SUMMARY	(MAR)																								
MN	71.5	73.1	71.5	73.2																						
MX	75.5	75.6	75.5	75.9																						
			34014.0																							
AV	71.9	73.3	72.7	73.5																						
MONTHI	Y SUMMARY	(APR)																								
MIN	71.5	73.1	71.5	73.3																						
MX	75.5	79.0	75.5	80.0																						
SM	34670.0	34669.6	35038.0	34865.2																						
AV	74.1	74.1	74.9	74.5																						
MONTHI	Y SUMMARY	(YAM)																								
MIN	71.5	71.1	71.5	73.4																						
MX	75.5	93.6	75.5	96.4																						
SM	36922.0	37044.4	37134.0	37482.6																						
AV	75.0	75.3	75.5	76.2																						
MONTHI	Y SUMMARY	(JUN)																								
MN	75.5	73.8	75.5	74.3																						
MX	75.5	75.8	75. 5	76.1																						
SM	34428.0	34062.1	34428.0	34270.7																						
AV	75. 5	74.7	75.5	75.2																						
MONTHI	Y SUMMARY	(301)																								
MN			75.5	74.5																						
MX																										
			38052.0																							
			75.5																							

	ENTECH BADING,	ENGINEE:	RING 19603	8 4	ZDOB -	PT.	MONMO	UTH -	MYER	CENT	ER, NJ	: FIN	OAC0	- SIM	MCA	// A	ONLY	W/OA	SCHD1	2 SDL	RU
S_8		- HOURL	Y-REPORT																	PAGE	
	4MIDL	4MIDL	OINTEXTP	OINTEXT	P																•••
			ER	BR																	
	THERMOST		THERMOST																		
	SETPOINT																				
	P	P	P	P																	
	(7)	(6)	(7)	(6)																
MONTH	LY SUMMARY	(AUG)																			
MIN		73.6	75.5	74.	2																
MX		75.9		76.																	
	35334.0																				
AV				75.																	
MONTH	LY SUMMARY	(SRP)																			
MN		72.6	75.5	73.	9																
MX				75.																	
	35298.0																				
AV				75.																	
MONTH	LY SUMMARY	(OCT)																			
MN			71 5	72.	5																
MX		78.8		82.																	
	37560.0																				
AV		73.8		74.																	
MONTH	LY SUMMARY	(NOV)																			
MN			71.5	73.	2																
MX																					
	34772.0																				
AV		73.6		74.																	
MONTH	LY SUMMAR	(DEC)																			
MIN	71.5	72.9	71.5	73.	1																
MX	75.5	74.4	75.5	75.	4																
SM	35334.0	36026.2	35518.0	36129.	8																
AV	71.8	73.2	72.2	73.	4																
YEARL	Y SUMMARY																				
MN	71.5	68.6	71.5	72.	5																
MX	75.5	93.6	75. 5	96.	4																
SM	423060.0	424663.5	425648.0	427203.	4																
AV	73.8	74.0	74.2	74.	c																

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 16:24:42 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER PILE- NEWARK, NJ

BOUIPMENT	NUMBER SIZE INSTD					
				(MBTU/H) AVAIL		(MBTU/H) AVAIL
HW-BOILER	4.648 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 16:24:42 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

BOUIPMENT			н	OURS A	r Perc	ENT P	ART LOA	D RAT	rio cir			TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	USED	THERMAL USED
-4	0 10	20	30	40	50	6	0 70	8	10 90	10	0 - 110+		(MB10)	(MB10)	(MBTU)	(MBTU)
HW-BOILER	2736	641	642	475	338	142	64	33	12	4	1	5088	3673.8	0.0	236.0	5321.7
	2736	641	642	475	338	142	64	33	12	4	1					
HERM-CENT-CHLR	1064	511	805	487	340	337	117	11	0	0	0	3672	8597.3	0.0	1960.2	0.0
	1064	511	805	487	340	337	117	11	0	0	0					
COOLING-TWR	1229	566	601	328	161	118	149	126	106	100	188	3672	10557.6	0.0	814.0	0.0
	1229	566	601	328	161	118	149	126	106	100	188					- 1 4

HOT LOOP CIRCULATION PUMP BLECTRICAL USE = 174.8 MBTU COLD LOOP CIRCULATION PUMP BLECTRICAL USE = 907.9 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 16:24:42 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3673.8	100.0
LOAD SATISPIED TOTAL LOAD ON PLANT	3673.8 3673.8	100.0
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8597.3	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	8597.3 8597.3	100.0
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
BLECTRICITY	23097.8	100.0
LOAD SATISFIED TOTAL LOAD ON PLANT	23097.8 23097.5	100.0

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 85.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3673.8 8597.3	3673.8 8597.3	0.000	0.000	0
BLECTRICAL LOADS	23097.5	23097.8	0.000	0.000	0

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE - NEWARK, NJ

вопгьмвит	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.155	4.648	2 20 3	4.648 5088				•••••
HERM-CENT-CHLR	0.300	6.956	8 18 15	7.800 3672				
COOLING-TWR	0.302	8.375	8 18 15	2.379 14688				

ENTECH ENGINEERING BZDOB - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE - NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUBL-OIL
CATEGORY OF USE		
SPACE HEAT	235.96	5321.68
SPACE COOL	2774.24	0.00
HVAC AUX	5307.58	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.40	0.00
TOTAL	23097.73	5321.68

TOTAL SITE ENERGY 28419.50 MBTU 86.2 KBTU/SQFT-YR GROSS-AREA 86.2 KBTU/SQFT-YR NET-AREA 226.6 KBTU/SQFT-YR GROSS-AREA 226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING DING. PA 19603 82DOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 16:24:42 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING. HOURLY-REPORT ммррин HERM-CEN HERM-CEN HERM-CEN HERM-CRN COOLING-COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD BLECTRIC ENTERING WATER RANGE FAN PUMP LEAVING USB COND TEM COLD TEM PLOWRATE BTU/HR BTU/HR F GAL/MIN R BTU/HR BTU/HR ----(1) ----(3) ----(12) ---- (13) ---(8) ---- (10) ---- (20) ----(21) MONTHLY SUMMARY (JAN) MN 0. 0. 0.0 0.0 0.0 0.0 0. 0. Ο. ٥. 0.0 0.0 0.0 0.0 0. 0. SM ο. 0.0 0.0 0.0 0. O. ΑV 0. ٥. 0.0 0.0 0.0 0.0 Ο. 0. MONTHLY SUMMARY (FEB) MN ο. 0. 0.0 0.0 0.0 0.0 Ο. MX 0. 0. 0.0 0.0 0.0 0.0 0. ٥. 0. 0. 0.0 0.0 0.0 0.0 0. Ō. AV 0.0 0.0 0.0 0. ٥. MONTHLY SUMMARY (MAR) 0.0 0.0 0.0 0.0 ٥. ٥. MY ٥. 0.0 0.0 0.0 0.0 ٥. SM 0. 0. 0.0 0.0 0.0 0.0 ٥. α. ΑV 0. ٥. 0.0 0.0 0.0 0.0 0. 0. MONTHLY SUMMARY (APR) 0. 0.0 0.0 0.0 0.0 0. Ō. MX 0 0. 0.0 0.0 0.0 0.0 ٥. Ο. SM 0. ٥. 0.0 0.0 0.0 0.0 0. ō ΑV 0. 0.0 0.0 0.0 0.0 0. Ο, MONTHLY SUMMARY (MAY) 0.0 0.0 0.0 0.0 0. Ō. 4734563. MY 885751. 76.9 55.5 1950.0 5.8 140410. 90465. SM 204805856. 69268752. 16615.6 13621.8 491400.0 301.9 29106086 22797268 416272. 140790. 33.8 27.7 998.8 0.6 59159. 46336. MONTHLY SUMMARY (JUN) 136381. 64.5 53.9 1950.0 0.5 106147. 90465. 853501. 206956576. MX 4389327. 80.0 55.4 1950.0 5.5 140410. 90465. 815711680. SM 31425.9 24815.9 889200.1 1086.1 59935544. 41252200 AV 1788841. 453852. 68.9 54.4 1950.0 2.4 131438. 90465. MONTHLY SUMMARY (JUL) 161215. 65.0 53.9 1950.0 0.6 114031. 90465. MX 4326828. 847222. 79.0 55.4 1950.0 5.4 140410. 90465. 1108698368. 261142528. SM 35685.2 27505.7 982800.1 1445.9 68744472 45594536 AV 2199798. 518140. 70.8 54.6 1950.0 2.9 136398. 90465.

ENTECH ENGINEERING EZDOB - BLITE SOFTWARE DEVELOPMENT INC DOR-2.1D 7/ 2/1996 16:24:42 PDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHOL READING, 19603 RP_1 - HOURLY-REPORT PAGE 2- 1 HERM-CEN HERM-CEN HERM-CEN HERM-CEN COOLING- COOLING-COOLING-COOLING-T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR LOAD ELECTRIC ENTERING LEAVING WATER RANGE PAN PUMP USB COND TEM COLD TEM PLOWRATE BLBC BTU/HR BTU/HR P GAL/MIN D BTU/HR BTU/HR ----(1) ----(3) ---- (12) ---- (13) ---(8) ---- (10) ---- (20) ---- (21) MONTHLY SUMMARY (AUG) 289191. 136381. 64.9 53.9 1950.0 0.5 5.7 108731. 90465. MX 4591155. 926070. 83.0 55.5 1950.0 140410. 90465. 897506496. 223031584 SM 33148 2 25491.5 912600 1 1187.4 62609704. 42337780. AV 1917749. 476563. 70.8 2.5 54.5 1950.0 133781. 90465. MONTHLY SUMMARY (SEP) 289191. 3365087. MN 136381. 65.0 53.9 1950.0 0.5 106147. 90465. MX 676081. 78.0 55.0 1950.0 4.2 140410. 90465. SM 577829248. 172632304. 32075.1 25371.7 912600.1 808.1 59208216. 42337784. AV 1234678. 368872. 68.5 54.2 1950.0 1.7 MONTHLY SUMMARY (OCT) MN 0. 0. 0.0 0.0 0.0 0.0 2556596. ō. 554104. ΜX 70.0 54.7 1950.0 3.3 140212. 90465. 49044764. 13588.0 16451.0 491400.0 188.9 22797272. 28122556. 227608. AV 97311. 32.6 27.0 975.0 0.4 55799. 45233. MONTHLY SUMMARY (NOV) MN 0. ο. 0.0 0.0 0.0 0.0 ο. MX Ο. 0. 0.0 0.0 0.0 0.0 ο. 0. SM Ο. 0.0 0.0 0.0 0.0 0. 0. AV 0. 0. 0.0 0.0 0.0 0.0 0. MONTHLY SUMMARY (DEC) MN ٥. 0. 0.0 0.0 0.0 0.0 ٥. MX ٥. 0. 0.0 0.0 0.0 0.0 0. 0. 0. 0.0 0.0 0.0 0.0 n. 0. AV 0. ٥. 0.0 0.0 ٥. 0. YEARLY SUMMARY MN a ٥. 0.0 0.0 0. 926070. 982076544. 4734563. MX 90465. 83.0 55.5 1950.0 5.8 140410. 3719266048. 165401.0 130394.6 4680000.5 5018.3 307726592. 217116832. ΑV 648408. 171213. 28.8 0.9 53648. 37852.

ENTECH ENGINEERING READING, PA 19603		EZDOB - BLI	TE SOFTWARE DEVELOPMENT	INC DOB-2.1D	7/ 2/1996 16:24:	42 PDL	RUN :	
P_2	■ HOUR	LY-REPORT		MONMOUTH - MYER CENTER,			PAGE	
MDDHH	HW-BOILE	HW-BOILE		HW-BOILE				
	R	R	R	R				
	LOAD	BLECTRIC	PUBL	CAPACITY				
		USB	USB	RUNNING				
	BTU/HR	BLBCTRIC USB BTU/HR	BTU/HR	RUNNING BTU/HR				
	(1)	(3)	(4)	(7)				
MONTHLY	SUMMARY (JAN)							
MIN	162239.	14277.	254516.	4648277.				
MX	4169796.	102262.	5092058.					
SM	823017984.	45530488.	1153649792.					
AV	1672801.	92542.	2344817.	4648278.				
MONTHLY	SUMMARY (FEB)							
MON	15403.	1356.	24165.	4648277.				
MX	4648277.	102262.	5577933.	4648277.				
SM		38768240.	1003392000.	2063835008				
AV		87316.						
	SUMMARY (MAR)							
MIN	15403.	1356.	24165. 3359322. 693906112.	4648277.				
MX	2533265.	102262.	3359322.	4648277.				
SM	464817216.	33754812.	693906112.	2175393536.				
AV	993199.	72126.	1482705.	4648277.				
	SUMMARY (APR)							
	15403.	1356.	24165.	4648277.				
MX	1909794.	102262.	2670332.	4648277.				
SM	144827648.							
VA	309461.	25341.	476237.	4648278.				
	SUMMARY (MAY)							
MIN	0. 348861 .	0.	0.	0.				
MX	348861.	30700.	547284.	4648277.				
SM		1393796.		1115586560.				
AV	32192.	2833.	50502.	2267452.				
	SUMMARY (JUN)							
MN	• • •	0. 0.	0.	0.				
MDX	٥.			0.				
SM	0.	0.	0.	0.				
AV	0.	٥.	0.	0.				
	SUMMARY (JUL)							
MIN		0.		0.				
MX	0.	0.	0.	Ō.				
SM	0.	0.	0.	0.				
AV	0.	0.	0.	0.				

HW-BOILE R		19603		TE SOPTWARE DEVELOPMENT MONMOUTH - MYER CENTER	, NJ PTMOACO - SIM MCA HZO ONLY W/OA SCHD1
KP_2	- HOUR	LY-REPORT			PAGE
		HW-BOILE	HW-BOILE	HW-BOILE	
		R	R	R	
	LOAD	BLECTRIC USE	FUEL USE	CAPACITY RUNNING	
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	
	(1)	(3)	(4)	(7)	
MONTHL	Y SUMMARY (AUG)				
MN	0.	0.	0.	0.	
MX	0.	0.	0.	0.	
SM	0.	0.	0.	0.	
AV	0.	0.	0.	0.	
MONTHL	Y SUMMARY (SEP)				
MIN	0.	0.	0.	0.	
MX	0.	0.	0.	0.	
SM	0.	0.	0.	0.	
AV	0.	0.	0.	0.	
	Y SUMMARY (OCT)				
MN	0.	0.	Ο.	0.	
MX	901315.	79316.	1413960.	4648277.	
SM	27343130.	2406196.	42895200.	1171365888.	
AV	54252.	4774.	85110.	2324139.	
	Y SUMMARY (NOV)				
MIN	15403.	1356.	24165.	4648277.	
MX	2355515.	102262.	3164516.	4648277.	
SM	319433728.	24739036.	484560256.	2231172864.	
VA	665487.	51540.	1009501.	4648277.	
	Y SUMMARY (DEC)				
MN	15403.	1356.	24165.	4648277.	
MX	2979125.	102262.	3842268.	4648277.	
SM	727572096.	42909596.	1036092032.	2286952448.	
AV	1478805.	87215.	2105878.	4648278.	
	SUMMARY				
MN	0.	0.	0.	0.	
MX	4648277.	102262.	5577933.	4648277.	
SM	3242814464.	201361920.	4662221312.	15506653184.	
AV	565344.	35105.	812800.	2703392.	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 16:24:42 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- EV-B COST OF FUELS AND UTILITIES

SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULB (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00 138690.00	0.0000	5.000		1000000.000	0.00	0.00	YELECI		

RMTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 16:24:42 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

	CHARGE-		CONSUMPTION	ENERGY	MEASURED	BILLING	DEMAND	TOTAL
ONTH	ASSIGNMENT	LENGTH	BY C-A	CHARGE	DEMAND	DEMAND	CHARGE	CHARGES
	(U-NAME)	(HIR/MO)	(KWH)	(\$)	(KW)	(KW)	(\$)	(\$)
				,				
AN								
	40FPKKWH	744	492626.	35419.79	1461.	1461.	0.00	
	BONPKDMHTG	252	299363.	0.00	1461.	1461.	12523.13	
EB								47942.91
80	4OFPKKWH	672	443469.	31885.46	1461.	1461.	0.00	
	BONPKDMHTG	228	269721.	0.00	1461.	1461.	12523.13	
								44408.58
AR								
	40PPKKWH	744	508232.	36541.90	1461.	1461.	0.00	
	BONPKDMHTG	276	325960.	0.00	1461.	1461.	12519.40	40061 30
LPR								49061.30
	40PPKKWH	720	471791.	33921.80	1451.	1451.	0.00	
	BONPKDMHTG	252	296752.	0.00	1451.	1451.	12431.73	
								46353.53
AY	40FPKKWH	744	567732.	40819.94	1896.			
	BONPKDMHTG	252	336181.	0.00	1896.	1896.	0.00	
	BONPRIMITIG	232	336181.	0.00	1896.	1896.	16244.95	57064.89
TUN								
	40PPKKWH	456	286522.	20600.94	1087.	1087.	0.00	
	BONPKDMCL	264	409245.	0.00	1959.	1959.	18555.89	
	BONPKKWH	264	409245.	32780.50	1959.	1959.	0.00	
ΠUL								71937.33
	4OFPKKWH	504	325145.	23377.89	1072.	1072.	0.00	
	BONPKDMCL	240	377259.	0.00	1959.	1959.	18549.63	
	BONPKKWH	240	377259.	30218.49	1959.	1959.	0.00	
****								72146.01
NUG	40FPKKWH	468	297670.	21402.45	1095.	1095.	0.00	
	BONPKDMCL	276	433414.	0.00	1960.	1960.	18565.50	
	BONPKKWH	276	433414.	34716.47	1960.	1960.	0.00	
								74684.42
SEP	TOBBYEN	***	201000	20210 22	1054			
	4OPPKKWH	468	281089.	20210.29	1064.	1064.	0.00	
	BONPKDMCL BONPKKWH	252 252	377386. 377386.	0.00 30228.59	1903. 1903.	1903. 1903.	18022.92	
	- ONE NIVALL	230	377366.	30220.33	1303.	1903.	0.00	68461.80
CT								
	40FPKKWH	744	538915.	38747.98	1809.	1809.	0.00	
	BONDKDWHTG	240	309509.	0.00	1809.	1809.	15506.68	
vov								54254.66
	40FPKKWH	720	465642.	33479.64	1460.	1460.	0.00	
	BONPKOMHTG	240	283059.	0.00	1460.	1460.	12515.08	
								45994.72

ENTECH ENGINEERING SZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/2/1996 16:24:42 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1

REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS BLECTRIC FUEL-OIL MONTH UNIT-UNIT-138690.00 3413.00 TAN ENERGY CONSUMPTION (UNIT/MO) 492626 9890. PEAK DEMAND (UNIT/HR) 1461. 37. TOTAL COST (\$) 47942.91 5835.19 FEB ENERGY CONSUMPTION (UNIT/MO) 443469. 7948 PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1461. 40. 44408.58 4689.36 MAR 508232. ENERGY CONSUMPTION (UNIT/MO) 5637. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1461. 3325.66 49061.30 APR BNERGY CONSUMPTION (UNIT/MO)
PEAK DEMAND (UNIT/HR) 471791. 1790. 1451. TOTAL COST (\$) 46353.53 1056.25 MAY ENERGY CONSUMPTION (UNIT/MO) 567732. 223 PEAK DEMAND (UNIT/HR)
TOTAL COST (\$) 1896. 57064.89 131.38 JUN ENERGY CONSUMPTION (UNIT/MO) 695767. ٥. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 1959. 71937.33 0.00 ENERGY CONSUMPTION (UNIT/MO) 702404. 0. PEAK DEMAND (UNIT/HR) 1959. ٥. TOTAL COST (\$) 72146.01 0.00 AUG ENERGY CONSUMPTION (UNIT/MO) 731084. 0. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 74684.42 0.00 ENERGY CONSUMPTION (UNIT/MO)
PEAK DEMAND (UNIT/HR)
TOTAL COST (\$) 658474. ο. 1903 ٨ 68461.80 0.00 OCT ENERGY CONSUMPTION (UNIT/MO) 538915. 364. PEAK DEMAND (UNIT/HR) 1809. 10. TOTAL COST (S) 54254.66 214.71 ENERGY CONSUMPTION (UNIT/MO) 465642. 3862. PEAK DEMAND (UNIT/HR) 1460. 23. TOTAL COST (\$) 45994.72 2278.46 DRC ENERGY CONSUMPTION (UNIT/MO) 491445. 8658. PEAK DEMAND (UNIT/HR) TOTAL COST (\$) 5108.19 47858.02 TOTAL ENERGY CONSUMPTION (UNIT/YR) 6767581 38372 PEAK DEMAND (UNIT/HR) 1960. 40. TOTAL COST (S) 680168.25 22639.20

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/2/1996 16:24:42 EDL RUN 1 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, PA 19603 4130.
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES CONSUMPTION ENERGY MEASURED CHARGE-BILLING DEMAND TOTAL MONTH ASSIGNMENT LENGTH BY C-A CHARGE DEMAND DEMAND CHARGE CHARGES (U-NAME) (\$) (XW) (\$) (\$) (HR/MO) (KWH) ----------DEC 40PPKKWH 744 252 491445. 35334.89 1461. 1461. 0.00 0.00 12523.13 EONPKDMHTG 298950. 1461. 1461. 47858.02 TOTAL 6767581. 499687.00 180481.17 680168.25

REAL	ENTECH ENGI DING, PA = HO			ITE SOFTWARE DE . MONMOUTH - MY		2.1D 6/27 SIM MCA H20				L RUI	
DDHH	1SMCAHUS ZR	2SPERFC	3SPERFC	4SPBRFC	 						•
	SUPPLY	SUPPLY	SUPPLY	SUPPLY							
	BLECTRIC	BLECTRIC	BLECTRIC	ELECTRIC							
	KW	KW	KM	KM							
	(49)	(49)	(49)	(49)		Kri		,			
ONTHLY	SUMMARY (JAN	1)				1. 1			3	ŕ	-
MN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786						_	
SM	7576.734	383.846	383.846	450.173				\sim			
AV	30.066	1.523	1.523	1.786			1			/-	1
ONTHLY	SUMMARY (FEE)			
MIN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	6855.140	347.290	347.290	407.299							
AV	30.066	1.523	1.523	1.786		•					
NONTHLY	SUMMARY (MAR										
MIN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	8298.327	420.403	420.403	493.046							
AV	30.066	1.523	1.523	1.786							
	SUMMARY (APR										
MN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	7576.734	383.846	383.846	450.173 1.786							
AV	30.066	1.523	1.523	1.786							
	SUMMARY (MA)										
MIN	30.066	1.523	1.523	1.786 1.786							
MX	30.066 7576.734	1.523 383.846	1.523 383.846	450.173							
SM AV	30.066	1.523	1.523	1.786							
MONTHE	SUMMARY (JU)	5)									
MN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	7937.531	402.125	402.125	471.610							
AV	30.066	1.523	1.523	1.786							
MONTHLY	SUMMARY (JUI	L)									
MN	30.066	1.523	1.523	1.786							
MX	30.066	1.523	1.523	1.786							
SM	7215.937	365.568	365.568	428.736							
AV	30.066	1.523	1.523	1.786							

16:27:41 SDL RUN 1 ENTECH ENGINEERING DING. PA 19603 READING, PA 19603 HOURLY-REPORT 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RS 1 2SPERFC 1SMCAHUS 3SPERFC 4SPERFC ZR SUPPLY SUPPLY SUPPLY SUPPLY BLECTRIC ELECTRIC BLECTRIC BLECTRIC KW KW KW KW ---- (49) ---- (49) ---- (49) ---- (49) MONTHLY SUMMARY (AUG) 1.523 1.523 MN 30.066 30.066 1.786 1.786 1.523 MX 1.523 SM 8298.327 420.403 420.403 493.046 ΑV 30.066 1.523 1.523 1.786 MONTHLY SUMMARY (SEP) 30.066 1.523 1.523 1.786 MX 30.066 1.523 1.523 1.786 383.846 1.523 383.846 7576.734 450.173 SM AV 30.066 1.523 1.786 MONTHLY SUMMARY (OCT) 30.066 1.523 1.523 1.786 MN 1.523 365.568 1.786 428.736 ΜX 30.066 1.523 365.568 7215.937 SM AV 30.066 1.523 1.523 1.786 MONTHLY SUMMARY (NOV) 30.066 1.523 1.523 1.786 1.523 365.568 1.786 428.736 MX 30,066 1.523 7215.937 365.568 SM AV 30.066 1.523 1.523 MONTHLY SUMMARY (DEC) 30.066 1.523 1.523 1.786 30.066 MX 1.523 1.523 1.786 SM 7576.734 383.846 383.846 450.173 AV 30.066 1.523 1.523 1.786 YEARLY SUMMARY MN 30.066 30.066 1.523 1.786 1.786 1.523 1.523 1.523 SM 90920.805 4606.157 1.523

4606.157

1.523

5402.074 1.786

BZDOB - BLITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/27/1996

DOE-2.1D 6/27/1996 16:27:41 SDL RUN 1 ENTECH ENGINEERING REDOR - RIJTE SOFTWARE DEVELOPMENT INC. 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 19603 READING, PA RS_2 - HOURLY-REPORT PAGE 1- 1 MMDDHH SSZF2MID SSFZ3MID SSZF4MID OSMCAHUS SUPPLY SUPPLY SUPPLY SUPPLY BLECTRIC BLECTRIC BLECTRIC BLECTRIC ---- (49) ---- (49) ---- (49) --- (49) MONTHLY SUMMARY (JAN) MN 23.912 29.253 29.469 17.562 29.253 7371.756 MX 29.469 7426.086 23.912 17.562 SM 6025.824 4425.524 AV 23.912 29.253 29.469 MONTHLY SUMMARY (FEB) 29.253 29.469 17.562 MX 23.912 5451.936 29.253 6669.684 29.469 6718.840 17.562 SM 4004.046 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (MAR) 29.253 29.469 17.562 MN 23.912 6599.711 29.253 8073.829 29.469 8133.333 MX 17.562 SM 4847.002 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (APR) 29.253 29.469 17.562 MN 23.912 6025.824 29.253 7371.756 29.469 7426.086 MX 17.562 SM 4425.524 ΑV 23.912 29.253 29.469 MONTHLY SUMMARY (MAY) MIN 23.912 29.253 29.469 17.562 29.253 7371.756 MX 23.912 29.469 7426.086 17.562 4425.524 6025.824 SM AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (JUN) MN MX 23.912 23.912 29.253 29.469 17.562 29.253 7722.792 29.469 77**79**.709 17.562 SM 6312.768 4636.263 ΑV 23.912 29,253 29.469 17.562 MONTHLY SUMMARY (JUL) 23.912 29.253 29.469 17.562 MN 29.253 7020.720 29.253 29.469 7072.463 29.469 23.912 17.562 4214.785 17.562 5738.880 23.912 SM AV

BZDOB - BLITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 SDL RUN 1 4130.05 FT. MONMOUTH - MYBR CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 ENTECH ENGINEERING PA - HOURLY-REPORT RS_2 SSZF2MID SSZF4MID OSMCAHUS ZR SUPPLY STIPPILY SUPPLY SUPPLY BLECTRIC BLECTRIC BLECTRIC BLECTRIC KW ---- (49) --- (49) --- (49) --- (49) MONTHLY SUMMARY (AUG) 29.253 29.469 17.562 23.912 MIN MIX 23.912 29.253 29.469 17.562 SM 6599.711 8073.829 8133.333 4847.002 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (SEP) MN MX 23.912 23.912 29.253 29.469 17.562 29.469 7426.086 17.562 29.253 6025.824 7371.756 4425.524 17.562 AV 23.912 29.253 29.469 MONTHLY SUMMARY (OCT) 29.253 29.469 17.562 MIN 23.912 29.469 7072.463 MX 23.912 29.253 17.562 5738.880 7020.720 4214.785 ΑV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (NOV) 17.562 23.912 23.912 29.253 29.469 MN 29.469 7072.463 MX 29.253 17.562 5738.880 7020.720 4214.785 AV 23.912 29.253 29.469 17.562 MONTHLY SUMMARY (DEC) 17.562 23.912 29.253 29.469 MIN 29.469 7426.086 MX 23.912 29.253 17.562 SM 6025.824 23.912 7371.756 29.253 4425.524 29.469 17.562 YEARLY SUMMARY 23.912 29.253 29.469 17.562 MN 29.469 89113.039 17.562 53106.289 MX 23.912 29.253 72309.883 23.912 SM AV 88461.070 29.253 29.469 17.562

EZDOE - ELITE SOFTWARE DEVELOPMENT INC ENTECH ENGINEERING READING, PA 19603 - HOURLY-REPORT 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RS_3 MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER THERMOST ZONE
SETPOINT TEMP
P
P
THERMOSI ZONE
SETPOINT TEMP
P
P THERMOST ZONE THERMOST ZONE ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 71.5 73.5 75.5 75.8 71.5 MN 73.4 75.5 ΜX 76.1 SM 19022.0 18843.1 19018.0 18842.1 74.8 AV 75.5 74.8 75.5 MONTHLY SUMMARY (FEB) 75.5 73.5 75.**5** 75.**9** 71.5 MN 73.2 MX 75.5 76.4 17214.0 17088.2 17206.0 17084.3 ΑV 75.5 74.9 75.5 MONTHLY SUMMARY (MAR) 75.5 MN 75.5 74.0 75.5 74.1 MX 75.5 79.8 75.5 79.6 SM 20838.0 20815.9 20838.0 20835.3 AV 75.5 75.4 75.5 MONTHLY SUMMARY (APR) 74.3 75.5 74.2 75.5 88.3 75.5 MN 75.5 MX 87.9 19026.0 19448.4 19026.0 19467.6 AV 75.5 77.2 75.5 77.3 MONTHLY SUMMARY (MAY) 75.5 74.8 75.5 75.2 75.5 95.9 75.5 95.3 19026.0 19697.4 19026.0 19775.9 MN MX 95.3 AV 75.5 78.2 75.5 78.5 MONTHLY SUMMARY (JUN) LY SUMMARY (JUN)
75.5 75.5 75.5 75.7
75.5 77.1 75.5 77.7
19932.0 20168.5 19932.0 20280.0
75.5 76.4 75.5 76.8 MN MX SM AV MONTHLY SUMMARY (JUL) MN 75.5 75.6 75.5 75.8 MX 75.5 77.1 75.5 77.6 SM 18120.0 18354.5 18120.0 18442.9

DOE-2.1D 6/27/1996 16:27:41 SDL RUN 1

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ENTECH ENGINEERING BEDOR - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 SDL RUN 1 READING, PA 19603
3 HOURLY-REPORT 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RS_3 1EXTPER 1EXTPER 1INTPER 1INTPER THERMOST ZONE THERMOST ZONE THERMOST ZONE THERMOST ZONE
SETPOINT TEMP ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) MN 75.5 75.3 75.5 75.6 MX 75.5 77.1 75.5 77.5 SM 20838.0 21107.7 20838.0 21169.1 AV 75.5 76.5 75.5 MONTHLY SUMMARY (SEP) MN 75.5 75.1 75.5 75.1 MX 75.5 77.0 75.5 77.6 SM 19026.0 19208.4 19026.0 19241.1 75.5 76.2 MONTHLY SUMMARY (OCT) MN 75.5 74.5 75.5 74.2 MX 75.5 82.6 75.5 81.9 SM 18120.0 18330.3 18120.0 18335.0 76.4 MONTHLY SUMMARY (NOV) 74.2 75.5 74.2 88.5 75.5 88.7 18257.2 18120.0 18289.7 75.**5** 75.**5** 74.2 MX SM 18120.0 AV 75.5 76.1 75.5 MONTHLY SUMMARY (DEC) 75.5 75.5 MIN 75.**5** 75.**5** 73.8 77.7 73.6 77.5 MX 19026.0 18889.4 19026.0 18914.2 AV 75.5 75.0 75.5 75.1 YEARLY SUMMARY 71.5 75.5 MIN MOX 71.5 75.5 73.5 73.2 95.9 95.3 SM 228308.0 230209.0 228296.0 230677.3

76.1 75.5

76.3

AV

75.5

PAGE 2- 1

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_4 - HOURLY-REPORT PAGE 1- 1

· RE	LADING,	PA	19603	4130
RS 4		- HOURL	-REPORT	
			21NTPBR	
	THERMOST	ZONE	THERMOST SETPOINT	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	F	F	P	P
	(7)	(6)	(7)	(6)
MONTHI	Y SUMMARY	(JAN)		
MN	71.5	72.3	71.5	72.3
MIX	75.5	78.8	75. 5	79.6
SM	18514.0	18715.6	18550.0	18762.4
AV	73.5	74.3	71.5 75.5 18550.0 73.6	74.5
MONTH	LY SUMMARY	(FEB)		
MN	71.5	72.9	71.5 75.5 16914.0	72.9
MX	75.5	79.1	75.5	79.8
SM	16898.0	17067.2	16914.0	17123.0
AV	74.1	74.9	74.2	75.1
монтн	LY SUMMARY	(MAR)		
MN	71.5	72.8	71.5	72.8
MX	75.5	85.3	75.5	86.2
SM	20594.0	21122.0	71.5 75.5 20622.0	21202.6
AV	74.6	76.5	74.7	76.8
MONTH	LY SUMMARY	(APR)		73.1 101.6 21513.0 85.4
MIN	71.5	73.1	71.5	73.1
MX	75. 5	100.4	75.5	101.6
SM	18978.0	21348.4	18978.0	21513.0
AV	75.3	84.7	75.3	85.4
MONTH	LY SUMMAR	Y (MAY)		
MON	71.5	71.3	71.5	71.4 105.1 20857.1
MX	75. 5	104.4	75.5	105.1
SM	18998.0	20768.4	19002.0	20857.1
AV	75.4	82.4	75.4	82.8
MONTH	LY SUMMAR	Y (JUN)		
MN	75.5	74.5	75.5	74.4
MX	75.5	76.9	75.5	76. 9
SM	19932.0	19970.9	19932.0	19964.5
AV	75.5	75.6	75. 5	74.4 76.9 19964.5 75.6
MONTH	LY SUMMAR	Y (JUL)		74.5 76.7 18177.9
MIN	75.5	74.5	75.5	74.5
MX	75.5	76.8	75. 5	76. 7
SM	18120.0	18184.2	18120.0	18177.9
AV	75.5	75.8	75.5	75.7

RE S_4	ADING,	PA		4130.0	- BLITE SOFTWARE 5 FT. MONMOUTH -						
						 	 	 	 	_	_
	2BXTPER	2EXTPER	2 INTPER	2 INTPER							
			THERMOST								
			SETPOINT P								
	(7)	(6)	(7)	(6)							
MONTHL	Y SUMMARY	(AUG)									
MN	75. 5	74.4	75.5	74.4							
			75.5								
SM	20838.0	20909.4	20838.0	20910.2							
AV	75.5	75.8	75.5	75.8							
MONTHL	Y SUMMARY	(SBP)									
MIN			75.5	73.6							
MX			75.5								
			19026.0								
			75.5								
MONTER	Y SUMMARY	(007)									
			71.5	71 7							
			75.5								
			18104.0								
			75.4								
~*	73.4	73.0	/3.4	73.6							
	Y SUMMARY										
			71.5								
			75.5								
			17984.0								
AV	74.8	79.2	74.9	79.7							
MONTHL	Y SUMMARY	(DEC)									
MN	71.5	72.7	71.5	72.8							
MX	75.5	82.4	75.5	83.7							
SM	18522.0	18774.5	18566.0	18819.8							
AV	73.5	74.5	73.7	74.7							
YEARLY	SUMMARY										
			71.5	71.3							
MX				105.1							
			226636.0								
AV	74.9			77.6							

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ENTECH ENGINEERING BEDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/27/1996 READING, 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 PA 19603 • HOURLY-REPORT RS 5 MMDDHH 3EXTPER 3EXTPER 3INTPER 3INTPER THERMOST ZONE THERMOST ZONE SETPOINT TEMP F F F F ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (JAN) 71.5 75.5 MX 75.5 78.8 75.5 79.6 SM 18514.0 18715.6 18550.0 18762.4 AV 73.5 74.3 73.6 MONTHLY SUMMARY (FEB) 71.5 72.9 75.5 79.1 71.5 75.5 72.9 79.8 MN SM 16898.0 17067.2 16914.0 17123.0

16:27:41 SDL RUN 1

PAGE 1- 1

71.5 72.8 75.5 85.3 75.5 86.2 MX SM 20594.0 21121.9 20622.0 21202.6 AV 74.6 76.5 74.7 76.8 MONTHLY SUMMARY (APR) 71.5 73.1 71.5 73.1 75.5 100.4 75.5 101.6 18978.0 21348.4 18978.0 21513.0 MN MX SM 75.3 84.7 MONTHLY SUMMARY (MAY) 71.5 71.3 71.5 71.4 75.5 104.4 75.5 105.1 18998.0 20768.4 19002.0 20857.1 MX SM 82.4 MONTHLY SUMMARY (JUN) MN 75.5 MX 75.5 SM 19932.0 74.5 75.5 74.4 76.9 75.5 76.9 19970.9 19932.0 19964.5 ΑV 75.5 75.6 75.5 MONTHLY SUMMARY (JUL) 75.5 74.5 75.5 74.5 75.5 76.8 75.5 76.7 18120.0 18184.3 18120.0 18177.9 MN MX

75.8

75.5

75.7

74.9

74.2

71.5

75.1

72.8

AV

MN

ΑV

75.5

74.1

MONTHLY SUMMARY (MAR)

READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1

RS_5 HOURLY-REPORT PAGE 2- 1

	RADING,			4130
RS_5			-REPORT	
	3EXTPER	3EXTPER	3 INTPER	3 INTPER
	THERMOST	ZONB	THERMOST SETPOINT	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	P	F	P	P
	(7)	(6)	(7)	(6)
MONTH	LY SUMMARY	(AUG)		
MN	75.5	74.4	75.5	74.4
MX	75.5	76.9	75. 5 75. 5	76.9
SM	20838.0	20909.4	20838.0	20910.2
AV	75. 5	75.8	75. 5	75.8
MONTH	LY SUMMARY	(SEP)		
	71.5	73.3	75.5	73.6
MX	75.5 19022.0	76.3	75.5	76.4
		18965.5	19026.0	18977.9
AV	75.5	75.3	75.5	75.3
MONTH	LY SUMMAR	(OCT)		
MIN	71.5 75.5 18096.0	70.4	71.5	71.3
MX	75. 5	92.5	75.5	94.6
AV	75.4	79.0	75.4	79.6
MONTH	TY SUMMAR! 71.5 75.5 17964.0	Y (NOV)		
MDI	71.5	73.0	71.5	73.0
MX	75.5	94.2	75.5	95.0
SM	17964.0	19000.6	17984.0	19138.4
AV	74.8	79.2	74.9	79.7
	LY SUMMAR	Y (DEC)		
MN	71.5	72. 7	71.5	72.8
MX	75. 5 18522.0	82.4	75.5	83.7
AV	73.5	74.5	73.7	74.7
	Y SUMMARY			
MN	71.5 75.5	70.4	71.5	71.3
MX	75.5	104.4	75. 5	105.1
	226476.0		226636.0	234550.7
AV	74.9	77.3	74.9	77.6

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 SDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RS_6 = HOURLY-REPORT PAGE 1- 1

	RMTRCH	RMGINRRI	RING	RZDO
RE	ADING,	PA	19603	4130
RS_6		- HOURL	-REPORT	
			4INTPER	47VTDPD
PERDUNN	ADVILDE	MATTER	ATMIPER	AINIPAK
	THERMOST	ZONE	THERMOST SETPOINT F	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	F	P	F	P
	{ 7}	(6)	(7)	(6)
MONTHI	Y SUMMARY	(JAN)		
MN	71.5	72.2	71.5	72.2
MX	75.5	76.5	71.5 75.5	77.5
SM	18178.0	18495.3	18218.0	18515.3
AV	72.1	73.4	72.3	73.5
MONTEHI	Y SUMMARY	(PPB)		
MOZ	71 5	72 7	71 5	72 7
WY	75.5	76.5	71.5 75.5 16618.0 72.9	77.7
CM	16582 0	16803.3	16619 0	16922 4
AV	72.7	73 7	77 9	77 9
Av	/2./	/3./	72.3	73.0
MONTHI	Y SUMMARY	(MAR)		
MIN	71.5	72.7	71.5	72.7
MX	75.5	82.8	71.5 75.5 20378.0	83.3
SM	20358.0	20705.7	20378.0	20743.8
AV	73.8	75.0	73.8	75.2
монтн	LY SUMMARY	(APR)	71.5 75.5 18910.0	
MN	71.5	73.0	71.5	73.0
MX	75.5	94.4	75.5	95.2
SM	18910.0	20293.5	18910.0	20371.9
AV	75.0	80.5	75.0	80.8
		. (******		
LION THE	71 5	69 1	71 5	69.3
MX	75.5	107.1	75.5	101.5
CM	18966 0	20157 6	18966 0	20108.7
AV	75.3	80.0	71.5 75.5 18966.0 75.3	80.2
HOMIN	ar somman	74 1	75 5	74.0
MA	73.3	77.0	75.5	74.0
PLA CM	10022.0	10079 4	10027.0	10027 5
AV	75.5	75.5	75.5 75.5 19932.0 75.5	75.5
MONTH	r v crness	, (TT)		
MONTH.	JI SUMMAK	74 3	75 5	74 3
Part.	75.5	74.3	75.5	74.3
MX	19120 0	10164 3	75.5 75.5 18120.0	10163 3
SM	75.5	18164.2	75.5	75.7
AV	/5.5	/5.7	/5.5	/5.7

RE	RADING,	PA	19603	4130
RS_6			-REPORT	
			4 INTPER	
	THERMOST	ZONE	THERMOST SETPOINT	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	P	P	P	P
	(7)	(6)	(7)	(6)
MONTH	LY SUMMARY	(AUG)		
MIN	75. 5	73.8	75.5	73.8
MX	75.5	76.9	75.5 75.5 20838.0	76.9
SM	20838.0	20880.3	20838.0	20886.4
AV	75.5	75.7	75.5	75.7
MONTH	LY SUMMARY	(SEP)		
MIN	71.5	71.1	71.5	71.5
MX	75.5	76.3	75.5 19014.0	76.3
SM	19010.0	18901.1	19014.0	18917.6
AV	75.4	75.0	75. 5	75.1
MONTH	LY SUMMARY	(OCT)	71.5 75.5	
MN	71.5	65.1	71.5	66.0
MX	75. 5	86.0	75.5	87.3
SM	17988.0	18348.1	18020.0	18452.7
AV	74.9	76.5	75.1	76.9
MONTH	LY SUMMARY	(NOV)		
MIN	71.5	72.9	71.5 75.5 17820.0	72.9
MX	75. 5	88.6	75.5	89.1
SM	17768.0	18376.6	17820.0	18429.6
AV	74.0	76.6	74.3	76.8
MONTH	LY SUMMARY	(DEC)		
MN	71.5	72.6	71. 5 75. 5	72.7
MX	75. 5	80.1	75. 5	80.9
SM	18210.0	18560.2	18242.0	18580.1
AV	72.3	73.7	72.4	73.7
YEARL	Y SUMMARY		71.5 75.5	
MIN	71.5	65.1	71.5	66.0
MX	75.5	101.1	75.5	101.5
			225076.0	
AV	74.4	75.9	74.4	76.1

RS_7		- HOURL	RING 19603 Y-REPORT										PA	 1-
			3MIDL			 								
	THERMOST	ZONE	THERMOST	ZONE										
			SETPOINT											
	P	P	P	P										
	(7)	(6)	(7)	(6)									
MONTH	LY SUMMARY	(JAN)												
MIN	75.5	74.5	75.5	74	. 5									
MX	75.5	76.4	75.5	76	. 4									
SM	19026.0	19040.8	19026.0	19051	4									
AV	75.5	75.6	75.5	75	. 6									
MONTH	LY SUMMARY	(FEB)												
MIN	75.5	74.4	75.5	74	. 5									
MX														
			17214.0											
AV	75.5	75. 7	75.5	75	.7									
MONTH	LY SUMMARY	(MAR)												
MN				75	.0									
MX					. 6									
			20838.0											
VA	75. 5	76.0	75.5	76	. 0									
	LY SUMMAR													
MIN														
MX					. 7									
			19026.0											
AV	75.5	77.7	75.5	77	. 8									
	LY SUMMARY													
MN			75.5											
MX		96.2			. 2									
SM AV			19026.0 75.5											
MONTH	LY SUMMARY		75.5											
MX		75.6												
			19932.0											
AV			75.5											
MONTH	LY SUMMAR	v (JIII.)												
MN			75.5	79	. 7									
		77.1												
			18120.0											
	75. 5													

ENTECH ENGINEERING MEZDOB - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 SDL RUN 1 EZDOE - BLITE SOFTWARE DEVELOPMENT INC DOM-4.1D 0,27,200 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
PAGE 2- 1 READING, PA 19603 HOURLY-REPORT RS 7 2MIDL 2MIDL 3MIDL 3MIDL THERMOST ZONE THERMOST ZONA
SETPOINT TEMP
P P P THERMOST ZONE ----(7) ----(6) ----(7) ----(6) MONTHLY SUMMARY (AUG) 75.5 75.5 75.5 77.2 75.6 77.2 MIN 75.5 75.**5** SM 20838.0 21141.3 20838.0 21142.3 75.5 AV 76.6 75.5 MONTHLY SUMMARY (SEP) 75.5 75.4 75.5 75.4 75.5 77.1 75.5 77.1 MN ΜX SM 19026.0 19254.4 19026.0 19256.8 75.5 ħV 75.5 76.4 MONTHLY SUMMARY (OCT) 75.5 75.2 75.5 83.0 75.1 83.0 MON 75.5 MOX 75.5 SM 18120.0 18439.8 18120.0 18445.7 75.5 ΑV 75.5 76.8 MONTHLY SUMMARY (NOV) 74.9 90.6 75.5 75.**5** MN 75.**5** 75.**5** 74.9 18446.1 18120.0 18455.2 76.9 75.5 76.9 SM 18120.0 AV 75.5 MONTHLY SUMMARY (DEC) 75.5 75.5 74.6 78.6 75.**5** 75.**5** 74.7 MN 78.7 SM 19026.0 19079.9 19026.0 19089.6 AV 75.5 75.7 75.5 75.8 YEARLY SUMMARY RRLY SUMMARY
MN 75.5 74.4 75.5 74.5
MX 75.5 96.2 75.5 96.2
SM 228312.0 231618.8 228312.0 231685.0
AV 75.5 76.6 75.5 76.6

	ENTECH	ENGINEE	RING	R2	DOE -	ELITE SOFTWARE	DEVELOPMENT	INC	DOE-2.1D	6/27/1996	16:27:41	. SDL	RUN	1
RI IS 8	LADING,	PA	19603 Y-REPORT	43	30.05	FT. MONMOUTH -	MYER CENTER	, NJ	PTMOACO - SIM M	CA H20 ONLY	W/OA SCHD1	PAGE		
MODHH	4MIDL		0INTEXTP ER		•									
			THERMOST											
	SETPOINT	TEMP	SETPOINT	TEMP										
	P	P	F	P										
	(7)	(6)	(7)	(6)										
MONTH	LY SUMMARY	(JAN)												
MN			71.5	73.2										
MX			75.5											
SM	18786.0	18645.6	18802.0	18651.6	;									
AV	74.5	74.0	74.6	74.0)									
MONTH	Y SUMMARY	(FEB)												
MN			71.5	73.3	1									
MX	75. 5	75.4	75.5	75.3	ı									
SM	17102.0	16920.4	17106.0	16921.6	;									
AV	75.0	74.2	75.0	74.2	!									
MONTH	LY SUMMARY	(MAR)												
			71.5	73.4										
MX	75.5	78.6	75.5	79.0)									
			20814.0											
AV	75.4	74.6	75.4	74.8	3									
MONTH	LY SUMMARY	(APR)												
MN	75. 5	73.6	75.5	73.6										
MIX			75.5											
			19026.0											
AV	75.5	76. 6	75.5	76.7	7									
MONTH	LY SUMMAR													
MIN			75.5											
MX			75.5											
			19026.0											
AV	75. 5	77.6	75.5	78.0	,									
MONTH	LY SUMMAR	(JUN)												
MIN				75.3										
MIX			75. 5	77.:										
			19932.0											
AV	/5.5	/6.2	75.5	/6	•									
	LY SUMMAR													
			75.5											
MX			75.5											
			18120.0											
AV	75.5	76.3	75.5	76.4	•									

	ENTECH BADING,	PA	19603	EZDOB 4130.	- BLIT 05 FT.	e software Monmouth -	MYER CENTE	r inc R, NJ	FIMOAC	DOE-2 0 - S	.1D IM MC	6/27/199 A H20 ONL	6 16:27:4 Y W/OA SCHD1		
RS_8		- HOURL	Y-REPORT											PAGE	
	4MIDL	4MIDL	0 INTEXTP	OINTEXTP ER											
	THERMOST	ZONE	THERMOST												
			SETPOINT												
	P	P	F	F											
	(7)	(6)	(7)	(6)											
MONTH	LY SUMMARY	Y (AUG)													
MN				75.2											
MX	_	77.0		77.1											
	20838.0														
AV	75.5	76.3	75. 5	76.4											
MONTH	LY SUMMAR	Y (SEP)													
MIN				74.9											
	75.5			76.9											
	19026.0														
AV	75.5	75.8	75. 5	76.1											
	LY SUMMAR														
MIN				74.2											
MX															
	18112.0														
AV	75.5	75.7	75.5	76.1											
	LY SUMMAR														
	71.5			73.5											
MX															
SM AV	18116.0 75.5														
MONTH	LY SUMMAR	ע (מפרו													
MONTH			71.5	73.3											
	75.5														
				18709.7											
AV		74.2													
YEARL	Y SUMMARY														
MIN			71.5	73.2											
MX				97. 7											
SM	227792.0	228602.1	227844.0	229014.1											
AV	75.3	75.6	75.3	75.7											

ENTECH ENGINEERING EZODE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOLD
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

BQUIPMENT	NUMBER SIZE INSTD (MBTU/H) AVAIL					
HW-BOILER	4.648 1 1					
HERM-CENT-CHLR	7.800 1 1					
COOLING-TWR	2.379 4 4					

READING PART LOAD OPERATION EQUIPMENT PART LOAD OPERATION BY A 100 OPE

EQUIPMENT	0 10	20					ART LOA) 0 1	.00 - 110+	TOTAL	ANNUAL LOAD (MBTU)	PALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)
HW-BOILER	2736 2736	641 641	642 642	475 475	338 338	142 142	64 64	33 33	12 12	4	1	5088	3673.8	0.0	236.0	5321.7
HERM-CENT-CHLR	1064 1064	511 511	805 805	487 487	340 340	337 337	117 117	11 11	0			3672	8597.3	0.0	1960.2	0.0
COOLING-TWR	1229 1229	566 566	601 601	328 328	161 161	118 118	149 149	126 126	106 106	100 100	188 188	3672	10557.6	0.0	814.0	0.0

HOT LOOP CIRCULATION PUMP BLECTRICAL USE = 174.8 MBTU
COLD LOOP CIRCULATION PUMP BLECTRICAL USE = 907.9 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING PA 19603 READING, PA 19603 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41
4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

HEATING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD HW-BOILER 3673.8 100.0 LOAD SATISFIED 3673.8 100.0 TOTAL LOAD ON PLANT COOLING LOADS MBTU SUPPLIED PCT OF TOTAL LOAD _____ HERM-CENT-CHLR 8597.3 100.0 LOAD SATISFIED 8597.3 100.0 TOTAL LOAD ON PLANT 8597.3 ELECTRICAL LOADS MBTU SUPPLIED PCT OF TOTAL LOAD -----------BLECTRICITY 23097.8 ----------LOAD SATISFIED TOTAL LOAD ON PLANT 23097.8 100.0 23097.5

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS MAXIMUM TOWER EXIT TEMPERATURE = 85.F

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HRATING LOADS	3673.8	3673.8	0.000	0.000	0
COOLING LOADS	8597.3	8597.3	0.000	0.000	0
ELECTRICAL LOADS	23097.5	23097.8	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY M/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

	AVG	MAX	MC	N							
RQUIPMBNT	OPER RATIO	LOAD (MBTU)		DA	Y HR	SIZE (OPER HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.155	4.648	2	20	3	4.648	5088				
HERM-CENT-CHLR	0.300	6.956	8	18	15	7.800	3672				
COOLING-TWR	0.302	8.375	Ε	18	15	2.379	14688				

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WRATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	BLECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	235.96	5321.68
SPACE COOL	2774.24	0.00
HVAC AUX	5307.58	0.00
DOM HOT WIR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.40	0.00
TOTAL	23097.73	5321.68

TOTAL SITE ENERGY 28419.50 MBTU 86.2 KBTU/SQFT-YR GROSS-AREA TOTAL SOURCE ENERGY 74684.37 MBTU 226.6 KBTU/SQFT-YR GROSS-AREA

86.2 KBTU/SQFT-YR NET-AREA 226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

DOB-2.1D 6/27/1996 16:27:41 PDL RUN 1 ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, - HOURLY-REPORT PAGR 1- 1 -HERM-CEN COOLING- COOLING-COOLING-COOLING-MMDDHH HERM-CEN HERM-CEN HERM-CEN T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR LOAD BLECTRIC ENTERING LEAVING WATER RANGE PAN PUMP BLBC BLBC FLOWRATE USR COND TRM COLD TRM BTU/HR GAL/MIN BTU/HR BTU/HR BTU/HR ----(21) ----(20) ----(1) ----(3) ----(12) ----(13) ----(8) ----(10) MONTHLY SUMMARY (JAN) MN ٥. 0. 0.0 0.0 0.0 0.0 0. 0. 0. ٥. 0.0 0.0 0.0 0.0 0. MX 0. SM 0.0 0.0 0.0 0.0 ΑV ٥. ٥. 0.0 0.0 0.0 0.0 ٥. 0. MONTHLY SUMMARY (FEB) Ο. 0.0 0.0 0.0 0.0 ٥. ٥. ΜX 0. 0. 0.0 0.0 0.0 0.0 0. 0. 0.0 0.0 0.0 ο. 0.0 SM 0. 0.0 ΑV MONTHLY SUMMARY (MAR) ο. 0.0 0.0 0.0 0.0 ٥. ٥. ΜX 0. 0. 0.0 0.0 0.0 0.0 0. 0. 0.0 0.0 0.0 SM 0. 0.0 0.0 0.0 0.0 0.0 ٥. ۵. MONTHLY SUMMARY (APR) 0. 0. 0.0 0.0 0.0 0.0 0. ٥. MX 0. 0. 0.0 0.0 0.0 0.0 ٥. 0. 0.0 0.0 0.0 0.0 ٥. Ō. ο. ΑV 0. 0. 0.0 0.0 0.0 0.0 0. MONTHLY SUMMARY (MAY) ٥. 0.0 0.0 0.0 0.0 ٥. σ. MINI 0. 6000451. 1179016. 79.9 56.0 1950.0 7.4 140410. ΜX 365947136. 78225192. 8926.2 7232.2 257400.0 466.2 17391252. 11941428. AV 1452171. 310417. 35.4 28.7 1021.4 1.9 69013. 47387. MONTHLY SUMMARY (JUN) 90465. 387913. 64.5 54.1 1950.0 118667. MIN 1015087. 1.5 6886767. 83.5 56.3 8.6 1408817. 1950.0 140410. MX SM 1127043840. 220363632. 19075.1 14612.5 514800.0 1402.9 36755700. 23882852. 72.3 139226. 90465. 4269106. 834711. 55.4 1950.0 5.3 AV MONTHLY SUMMARY (JUL) 413325. 132391. 90465. 1311041. 64.5 1950.0 1.9 8.4 MN 54.2 6717490. 1356482. 82.0 56.3 140410. 90465. ΜX 17724.1 73.9 1406.5 SM 1135056768. 217876976. 13325.6 468000.0 33679548. 21711684.

55.5

1950.0

140331.

90465.

4729403.

ΑV

907821.

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 READING, PAGE 2- 1 · HOURLY-REPORT HERM-CEN HERM-CEN HERM-CEN COOLING-COOLING-COOLING-COOLING-HERM-CEN T-CHLR T-CHLR T-CHLR T-CHLR TWR TWR TWR TWR PUMP LOAD BLECTRIC ENTERING LEAVING WATER RANGE PAN COND TEM COLD TEM PLOWRATE BLBC BLBC USR BTU/HR BTU/HR GAL/MIN BTU/HR BTU/HR ---- (21) ----(1) ----(3) ----(8) ---- (20) ---- (12) ---- (13) ----(10) MONTHLY SUMMARY (AUG) 1950.0 124162. 90465. 378119. 64.6 1.4 MN 894222. 54.1 MX 6956289. 1418906. 85.3 56.3 1950.0 8.7 140410. SM 1282126848 249123264. 20417.3 15315.6 538200.1 1592.3 38684532. 24968436 ΔV 4645387. 902621. 74.0 55.5 1950.0 5.8 140161. 90465. MONTHLY SUMMARY (SEP) 0.7 109354. 439230. 5895004. 207365 64.4 1950.0 90465. MN 53.9 81.9 1166655. 1950.0 140410. 90465. 56.0 7.3 MX 802535552. 166128400. 17338.8 13845.9 491400.0 1013.7 34057108. 22797268 AV 3184665. 659240. 68.8 54.9 1950.0 4.0 135147. 90465 MONTHLY SUMMARY (OCT) 0. 4687710. 0 0.0 0.0 0.0 0.0 0 n 866799. 70.5 140410. 90465. 1950.0 MX 55.5 5.8 7049.0 5867.0 210600.0 226.0 13478706. 9770260. SM 165302800. 46462144. ΑV 688762. 193592. 29.4 24.4 877.5 0.9 56161. 40709 MONTHLY SUMMARY (NOV) MN 0. 0. 0.0 0.0 0.0 0.0 α. D. ٥. 0.0 0.0 0.0 0.0 ٥. ø. MX ο. 0.0 0.0 0.0 0.0 SM AV ο. 0. 0.0 0.0 0.0 0.0 0. 0. MONTHLY SUMMARY (DEC) 0.0 ο. Ο. 0. 0.0 0.0 0.0 MN 0. MX 0.0 0.0 0.0 0.0 ō. SM 0. 0. 0.0 0.0 0.0 0.0 0. O. 0.0 0.0 AV 0. 0.0 ٥. ٥. 0. YEARLY SUMMARY ٥. 0.0 0.0 0.0 0.0 0. 6956289. МX 1418906. 85.3 90530.5 56.3 70198.9 1950.0 8.7 6107.7 140410. 90465. 4878012928. 978179584. 2480400.3 174046832. 115071920.

SM AV

1613100.

323472.

29.9

23.2

820.2

2.0

57555.

38053

	DING,	PA	19603	EZDOR - ELI: 4130.05 FT.							
RP_2			LY-REPORT			 	 	 	PAGE	1-	1
MMDDHH	HW-BOILE				HW-BOILE	 					-
	R		R	R	R						
	LOAD		BLECTRIC	FUBL	CAPACITY						
			USB	USB	RUNNING						
	BTU/HR		BTU/HR		BTU/HR						
	(1)		(3)	(4)	(7)						
MONTHULY	SUMMARY (TRAIL									
				*****	4540000						
MIN	154	03.	1356.	24165.	4648277.						
MIX		34.	102262.	3841311.							
SM	1474036	во.		218015296.	1171365760.						
AV	5849	35.	41018.	865140.	4648277.						
MONTHLY	SUMMARY (FEB)									
MN	154	03.	1356.	24165.	4648277.						
MX	17447	93.	102262.	2485326.	4648277.						
SM	633014	88.	5492584.	98924976.	1059807168.						
AV	2776			433881.							
MOVEMBLE	SUMMARY (WAD)									
			1256	24165.	4640377						
	154		1356.	24165.	4648277.						
MIX	16835	03.	102262.	2416321. 87849896.	4648277.						
SM											
AV	2049	95.	17363.	318297.	4648277.						
MONTHLY	SUMMARY (APR)									
MN	154	03.	1356.	24165.	4648277.						
MOX	10245	98.	90165.	1607362.	4648277.						
SM	161980	86.	1425432.	25411140.	1171365760.						
AV	642	78.	5656.	100838.	4648277						
MONTHLY	SUMMARY (MAY)									
			0.	0.	0.						
MX	1808			283756	4648277						
SM	38477		338602.	6036252	557793216						
AV	152		1344.								
MANTUT V	SUMMARY ((MITT.)									
MN		0.	0.	0.	0.						
MX		0.	0.	0.							
SM AV		0. 0.	0. 0.	0. 0.	0.						
	. Crness Dr. 1	, ,,,,,,									
	SUMMARY (_		_						
MN		0.	0.	0.							
MX		0.	0.	0.							
SM		0.	0.	0.	ō.						
AV		0.	0.	0.	0.						

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. REAL	ENTECH DING,	PA HOURL	RING 19603 Y-REPORT			SOFTWARE CONMOUTH -			DOE FTMOACO -	-2.1D SIM MCA		01	RUN 1
	HW-BOII R LOAD	R	HW-BOILE R BLECTRIC USE	HW-BOILE R FUEL USE		HW-BOILE R CAPACITY		 	••••••		 	 	
	BTU/HR		BTU/HR	BTU/HR		RUNNING BTU/HR							
	(1	L)	(3)	(4)		(7)							
MONTHLY	SUMMARY	(AUG)											
MIN		0.	0.		0.		0.						
MX		0.	0.		0.		0.						
SM		0.	0.		0.		0.						
VA		0.	0.		0.		0.						
	SUMMARY												
MN		Ο.	0.		0.		0.						
MEX		0.	0.		0.		0.						
SM		0.	0.		0.		٥.						
AV		0.	0.		0.		0.						
	SUMMARY												
MIN			0.										
MX		3615.	19238.			46482							
SM		3828.	424937.	75753		6135725							
AV	20	0120.	1771.	315	54.	25565	52.						
MONTHLY	SUMMARY	(NOV)											
MN	15	5403.	1356.	241	55.	46482	77.						
MX	1286	5277.	1356. 102262.	241 19653	51.	46482	77.						
SM	32571	1738.	2852791.	510327	34.	11155864	32.						
AV	139	5716.	11887.	2126	37.	46482	77.						
	SUMMARY												
MN	15		1356.			46482	77.						
MCK	1900	0431.	102262.	26598	53.	46482	77.						
SM	106300		8927519.	1646788		11713657							
AV	421	1826.	35427.	6534	38.	46482	77.						
YEARLY													
MN		0.	0.				0.						
MX			102262.	38413:		46482							
SM		0336.	34590656.			81437813							
AV	142	2536.	11439.	2180	97.	26930	50.						

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	PIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGB1 (U-NAMB)	ASSIGN - CHARGE2 (U-NAME)
					1000000 000	2.00	2.22	YBLEC1		
FUEL-OIL	3413.00 138690.00	0.0000	5.000		1000000.000	0.00	0.00	ARPECI		

ENTECH ENGINEERING BEDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

	BLECTRIC	FUEL-OIL	
MONTH	UNIT-	UNIT-	
	3413.00	138690.00	
IAN			
ENERGY CONSUMPTION (UNIT/MO)	492626.	9890.	
PEAK DEMAND (UNIT/HR)	1461.	37.	
TOTAL COST (\$)	47942.91	5835.19	
PEB			
ENERGY CONSUMPTION (UNIT/MO)	443469.	7948.	
PRAK DEMAND (UNIT/HR)	1461.	40.	
TOTAL COST (\$)	44408.58		
MAR		*********	
ENERGY CONSUMPTION (UNIT/MO)	508232.	5637.	
PEAK DEMAND (UNIT/HR)	1461.	24.	
TOTAL COST (\$)	49061.30	3325.66	
APR	45002.50	3323.00	
ENERGY CONSUMPTION (UNIT/MO)	471791.	1790.	
PEAK DEMAND (UNIT/HR)	1451.	19.	
TOTAL COST (\$)		1056.25	
MAY	10333.33	1030.43	
ENERGY CONSUMPTION (UNIT/MO)	567732.	223.	
PEAK DEMAND (UNIT/HR)	1896.	4.	
TOTAL COST (\$)	57064.89	131.38	
JUN	37004.83	131.30	
ENERGY CONSUMPTION (UNIT/MO)	695767.	٥.	
PEAK DEMAND (UNIT/HR)	1959.	0.	
TOTAL COST (\$)	71937.33	0.00	
JUL	71937.33	0.00	
ENERGY CONSUMPTION (UNIT/MO)	702404.	0.	
PEAK DEMAND (UNIT/HR)	1959.	0.	
TOTAL COST (\$)	72146.01	0.00	
AUG	72240.02	0.00	
ENERGY CONSUMPTION (UNIT/MO)	731084.	0.	
PEAK DEMAND (UNIT/HR)	1960.	0.	
TOTAL COST (\$)	74684.42		
SEP		0.00	
ENERGY CONSUMPTION (UNIT/MO)	658474.	0.	
PEAK DEMAND (UNIT/HR)	1903.	0.	
TOTAL COST (\$)	68461.80	0.00	
OCT	00402.00	4.44	
ENERGY CONSUMPTION (UNIT/MO)	538915.	364.	
PEAK DEMAND (UNIT/HR)	1809.	10.	
TOTAL COST (\$)	54254.66		
NON	3.231.00		
ENERGY CONSUMPTION (UNIT/MO)	465642.	3862.	
PEAK DEMAND (UNIT/HR)	1460.	23.	
TOTAL COST (\$)	45994.72		
DEC			
ENERGY CONSUMPTION (UNIT/MO)	491445.	8658.	
PEAK DEMAND (UNIT/HR)	1461.	28.	
TOTAL COST (\$)	47858.02	5108.19	

TOTAL			
ENERGY CONSUMPTION (UNIT/YR)	6767581.	38372.	
PEAK DEMAND (UNIT/HR)	1960.	40.	·
TOTAL COST (\$)	680168.25		

ENTECH ENGINEERING BEDDE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

40NTH	CHARGE- ASSIGNMENT	LENGTH	CONSUMPTION BY C-A	ENERGY CHARGE	MEASURED DEMAND	BILLING DEMAND	DEMAND CHARGE	TOTAL CHARGES
	(U-NAME)	(HR/MO)	(KWH)	(\$)	(KW)	(KW)	(\$)	(\$)
IAN	40FPKKWH	744	492626.	35419.79	1461.	1461.	0.00	
	BONPKDMHTG	252	299363.	0.00	1461.	1461.	12523.13	
	BONFIDMITS	-3-	233303.	0.00	21021			47942.91
'BB								
	40FPKKWH	672	443469.	31885.46	1461.	1461.	0.00	
	BONPKDMHTG	228	269721.	0.00	1461.	1461.	12523.13	
								44408.58
IAR								
	40FPKKWH	744	508232.	36541.90	1461.	1461.	0.00	
	BONPKDMHTG	276	325960.	0.00	1461.	1461.	12519.40	40000
								49061.30
APR	40PPKKWH	720	471791.	33921.80	1451.	1451.	0.00	
	BONPKDMHTG	252	296752.	0.00	1451.	1451.	12431.73	
	goin tablaire		2507521	0.00				46353.53
YAN								
	40PPKKWH	744	567732.	40819.94	1896.	1896.	0.00	
	BONPKDMHTG	252	336181.	0.00	1896.	1896.	16244.95	
								57064.89
JUN					4000	****	0.00	
	40FPKKWH BONPKDMCL	456 264	286522. 409245.	20600.94 0.00	1087. 1959.	1087. 1959.	18555.89	
	BONPKKWH	264	409245.	32780.50	1959.	1959.	0.00	
	DOM: KIKIII		103213.	32.00.30	2222.			71937.33
JUL								
	40PPKKWH	504	325145.	23377.89	1072.	1072.	0.00	
	BONPKDMCL	240	377259.	0.00	1959.	1959.	18549.63	
	BONPKKWH	240	377259.	30218.49	1959.	1959.	0.00	
								72146.01
AUG	AORDEVIIII	468	297670.	21402.45	1095.	1095.	0.00	
	4OFPKKWH BONPKDMCL	276	433414.	0.00	1960.	1960.	18565.50	
	BONPKKWH	276	433414.	34716.47	1960.	1960.	0.00	
				31,10,11		-		74684.42
SEP								
	40PPKKWH	468	281089.	20210.29	1064.	1064.	0.00	
	BONDKOMCL	252	377386.	0.00	1903.	1903.	18022.92	
	BONDKKMH	252	377386.	30228.59	1903.	1903.	0.00	
~~								68461.80
oct	40FPKKWH	744	538915.	38747.98	1809.	1809.	0.00	
	BONPKDMHTG	240	309509.	0.00	1809.	1809.	15506.68	
	SOME INVITATION	***	307307.	5.50	2007.			54254.66
NOV								
	40FPKKWH	720	465642.	33479.64	1460.	1460.	0.00	
	BONPKDMHTG	240	283059.	0.00	1460.	1460.	12515.08	
								45994.72

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

KBFORT-	ad to support of al		CHARGES					CONTINUED	
MONTH	CHARGE- ASSIGNMENT (U-NAMB)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)	
DEC									
	4OPPKKWH	744	491445.	35334.89	1461.	1461.	0.00		
	BONPKDMHTG	252	298950.	0.00	1461.	1461.	12523.13		
								47858.02	
TOTAL			6767581.	499687.00			180481.17	680168.25	

ECO-10

ENTECH ENGINEERING E2DOB - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/15/1996 1:54: 2 FDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

вопіьмвид	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.583	10.090	5 16 3	8.300 1836				
COOLING-TWR	0.364	12.212	5 16 2	5.063 5800				
CTANK-STORAGE	0.466	7.282	8 18 15	73.200 1836				

. REA		BRING 19603 LY-REPORT			VELOPMENT INC	DOB-2.1D FTMOACO - SIM N		22:12:33 PDL RU DA SCHD1 PAGE 1-
инооми	HERM-CEN T-CHLR LOAD	HERM-CEN T-CHLR	COOLING- TWR	COOLING- TWR	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	ELECTRIC	PAN	PUMP	ENERGY	ENERGY	SYS COOL	TOTAL
		USE	BLEC	BLEC	RELEASED	STORED	LOAD	COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/KR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
816 1	8325560.	1646306.	273323.	96264.	٥.	6100000.	1922838.	8325560.
816 2	8069658.	1583426.	273323.	96264.	0.	6100000.	1666936.	8069658.
816 3	7946332.	1547015.	273323.	96264.	0.	6100000.	1543610.	7946332.
816 4	7880016.	1530765.	273323.	96264.	0.	6100000.	1477293.	7880016.
816 5	7816084.	1515485.	273323.	96264.	0.	6100000.	1413361.	7816084.
816 6	4439905.	836564.	202587.	96264.	0.	1881376.	2255807.	4439905.
816 7	4023550.	770823.	198421.	96264.	0.	0.	3720827.	4023550.
816 8	0.	0.	0.	0.	4767894.	0.	4465172.	0.
816 9	0.	0.	0.	0.	5323436.	0.	5020713.	0.
81610	0.	0.	0.	0.	5668898.	0.	5366176.	0.
81611	0.	0.	0.	0.	5932697.	0.	5629975.	٥.
81612	0.	0.	0.	0.	6121349.	0.	5818626.	0.
81613	0.	0.	0.	0.	6339592.	0.	6036869.	0.
81614	0.	0.	0.	0.	6301569.	0.	5998846.	0.
81615	0.	0.	0.	0.	6079547.	0.	5776824.	0.
81616	0.	0.	0.	O.	5140494.	0.	4837772.	0.
81617	0.	0.	0.	0.	4859908.	0.	4557186.	0.
81618	0.	0.	0.	0.	4245308.	0.	3942585.	0.
81619	0.	0.	0,	0.	3482335.	0.	3179612.	0.
81620	9436227.	1965759.	273323.	96264.	0.	6100000.	3033505.	9436227.
81621	9203944.	1900504.	273323.	96264.	0.	6100000.	2801221.	9203944.
81622	9033544.	1853528.	273323.	96264.	0.	6100000.	2630822.	9033544.
81623	8886283.	1813667.	273323.	96264.	0.	6100000.	2483561.	8886283.
81624	8670088.	1764909.	273323.	96264.	0.	6100000.	2267366.	8670088.
DAILY S	SUMMARY (AUG 16)							
MIN	0.	0.	0.	0.	0.	0.	1413361.	٥.
MX	9436227.	1965759.	273323.	96264.	6339592.	6100000.	6036869.	9436227.
SM	93731184.	18728748.	3134238.	1155173.	64263024.	62881376.	87847512.	93731184.
AV	3905466.	780365.	130593.	48132.	2677626.	2620057.	3660313.	3905466.

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/14/1996 22:12:33 PDL RUN 1 READING, PA 1960 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHO1 RP_1 PAGE 2- 1 HERM-CEN HERM-CEN COOLING-COOLING-CTANK-ST CTANK-ST PLANT. PLANT T-CHLR T-CHLR TWR TWR ORAGE ORAGE LOAD BLECTRIC FAN PUMP RNRRGY ENERGY SYS COOL TOTAL USE RLEC BLEC RRLRASED STORED LOAD COOLING BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ---- (20) ---- (21) ----(1) ----(4) ----(2) ----(9) 817 1 8604961. 1746886. 273323. 96264. 0. 6100000 2202239. 8604961. 817 2 8334408. 1677937. 273323. 96264. 0. 6100000. 1931685. 8334408. 817 3 8222406. 1640857. 273323. 96264. 0. 6100000. 1819684. 8222406. 817 4 8063390 1601300 273323 96764 0. 6100000. 1660668. 8063390. 817 5 7997030. 1577434. 273323. 96264. 0. 6100000. 1594308. 7997030. 817 6 6008083. 1135227. 267147. 0. 3295936. 2409424. 6008083 817 7 4382274. 835591. 196199. 96264. ٥. 4079552. 4382274. 817 8 ٥. 0. Ο. 5224305 0. 0. 4921582. 817 9 ٥. 0. 5784334. 0. 0. 5481611. D. 81710 ٥ 0. 0. 6005673. 5702950. 0. 81711 0. ο. ο. 0. 6404204. ٥. 6101481. 81712 0. 6355456. 0. 6658178. 0. 0. 0. 0. 81713 0. 6764645. 0. 6461923. n. 81714 0 ٥. ٥. ٥. 6757686. 81715 0. 0. 0. 0. 6389315. 0. 6086592. 81716 0. 5430626. 5127904 0. n. 81717 Ο. 0. ٥. ο. 5217008. 4914286. 81718 0. 0. ٥. 0. 4795852. 0. 4493130. 0. 81719 0. 0. 3885903. 0. 3583180. 0. 9720236. 96264. 81720 2067104. 273323. 0. 6100000. 3317514. 9720236. 81721 9415574. 1978790. 273323. 96264. 6100000 0. 3012852. 9415574. 81722 9143795. 1893148. 273323. 96264. 6100000. 2741072. 9143795. 81723 8946748. 1830261. 273323 96264 0. 6100000. 2544025. 8767966. 1782318. 273323. 96264. α. 6100000 2365244. 8767966 DAILY SUMMARY (AUG 17) MN 0. 0. ٥. 0. 0. 0. 1594308. ٥. 9720236. MX 2067104. 273323. 96264. 6764645. 6100000. 9720236 6461923. SM 97606864 19766854. 3196576. 1155173. 69317720. 64295936. 95363320. 97606864. ΑV 4066953. 823619. 133191. 48132. 2888238. 2678997. 3973472. 4066953.

READING, PA 1500-- HOURLY-REPORT 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 HERM-CEN HERM-CEN COOLING-COOLING-CTANK-ST PLANT CTANK-ST PLANT T-CHLR T-CHLR TWR TWR ORAGE ORAGE LOAD BLECTRIC PAN PLIMP RNRRGY ENERGY SYS COOL TOTAL USE BLBC BLEC RRLEASED STOPED CACT COOLING BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ---- (20) ---- (21) ----(1) ----(4) ----(2) ---(9) 1747349. 818 1 8636384. 273323. 96264. ٥. 6100000. 2233661. 8636384 818 2 8434174. 1695263. 273323. 96264. 0. 6100000. 2031452. 8434174. 818 3 8337630. 1662596. 273323. 96264. 6100000. 1934908. 818 4 8164430. 1619410. 273323 96264 ٥. 6100000. 1761707. 8164430. 818 5 7977811. 1566811. 273323. 96264. 0. 6100000. 1575088. 7977811. 818 6 8872317. 1781146. 273323. 0. 6100000. 2469595. 8872317. 818 7 6590370. 1256014. 269782. 96264. ٥. 2254912. 4032736. 6590370. 5256840. 0. 818 8 0. Ο. 0. 0. 4954118. 0. ٥. 5808053. 0. 5505331. 0. 0. 81810 0. ٥. 0. 6218376. 5915653. 0. 81811 ο. 0. 0. ٥. 6601525. 6298802. 81812 0. 0. 0. 0. 6680344. 0. 6377622. 0. 81813 7079866. 6777144. 0. 81814 ٥. ٥. ٥. Ο. 7281769. 6979047. 0. 81815 0. 0. 0. 0. ο. 6946938 6644215. 0. ٥. 5940299. 5637577. ο. ο. 81817 ٥. 0. ٥. 0. 5673811. 5371089. ο. 81818 0. ٥. 0. ٥. 5161632 ο. 4858909. ο. 81819 4527616. 4279052. 0. 2178282. 273323. 9870811. 9870811. 81820 96264. 0. 5567617. 3946313. 81821 9896245. 2176541. 273323. 96264. 0 5863693 3729829. 9896245 81822 9895917. 2176567. 96264. 6078216. 0. 3514978. 9895917. 81823 9715632. 2123515 273323. 96264. 6100000. 81824 9510250. 2062833. 273323. 96264 0. 6100000. 3107528. 9510250 DAILY SUMMARY (AUG 18) MN 0. 0. 0. 0. 0. ٥. 1575088. ο. MX 9896245. 2178282. 273323. 96264. 7281769. 6100000. 9896245 6979047 SM 105901968. 22046324. 3276335. 1155173. 73177064.

48132.

3049044.

EZDOR - ELITE SOFTWARE DEVELOPMENT INC

DOE-2.1D 6/14/1996

68564432.

2856851.

103249272.

4302053.

105901968.

4412582.

22:12:33 PDL RUN 1

ENTECH ENGINEERING

AV

4412582.

918597.

136514.

EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/14/1996 22:12:33 PDL RUN 1 READING. 19603 PA 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP_1 - HOURLY-REPORT PAGE 4- 1 HERM-CEN HERM-CEN COOLING-COOLING-CTANK-ST CTANK-ST PLANT PLANT T-CHLR T-CHLR TWR TWR ORAGE ORAGE BLECTRIC PAN PUMP SYS COOL ENERGY RNRRGY TOTAL USB ELEC BLEC RELEASED STORED LOAD COOLING BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ----(20) ---- (21) ----(1) ----(4) ----(2) ----(9) 9253977. 9131609. 819 1 1988647. 273323. 96264. 6100000. 0. 2851255. 9253977. 819 2 1940816 273323. 96264. 0. 6100000. 2728887. 9131609. 8924754. 819 3 1883295. 273323. 96264. α. 6100000. 2522031. 8924754. 819 4 8851367. 1851191. 273323. 96264. 6100000 ٥. 2448645 8851367 96264. 819 5 8810398 1839693. 273323. Ο. 6100000. 2407676. 8810398. 819 6 9572536. 2049429. 273323. 96264. ٥. 6100000. 3169813. 9572536. 9967083. 2169064. 273323. 96264 0 5071795. 4592566 9967083. 819 8 0. 0. 0. 5613660. ٥. 5310938. ο. 819 9 0. 0. ٥. 0. 6122802. 5820079. ٥. 81910 0. 0. 0. 0. 6208665 ο. 5905942. 81911 0. 6379204. 0. ٥. 6076482. 0. 81912 0. 0. Ο. 6527596. 0. 6224874. 0. 81913 0. 0. 0. 0. 6886882. 6584160. 0. 81914 0. 0. 0 6712683. α. 6409960. 81915 0. 0. 0. 6310945. 6008223. ٥. 0. 81916 0 0. 0. 5313110. 5010388. 0. 81917 ٥. 0. 0. ٥. 4922273. 4619550. 81918 0. 0. 0. 4453642 0. 4150920 ο. 81919 n ο. Ο. 3853985. 3551262. 81920 9672672. 2043004. 273323. 96264. 0. 6100000. 3269949. 9672672. 81921 9353499. 1951654. 273323. 96264. 6100000. 0. 2950777 9353499. 81922 9099245 1863682. 273323. 96264. 6100000. 2696522. 9099245. 8820708. 81923 1781487. 273323. 96264 0. 6100000 2417985. 8820708. 81924 8553722. 273323. 96264. 0. 6100000. 2151000. 8553722. DAILY SUMMARY (AUG 19) 0. 9967083. 0. ٥. 2151000. 0. 2169064. MX 273323. 96264. 6886882. 6100000. 6584160. 9967083. 110011576. 23066968. 3279876. 1155173. 69305440. 72171792. 99879880. 110011576.

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ENTECH ENGINEERING EZDOR - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/14/1996 22:12:33 PDL RUN 1 READING, 4130.05 FT. MONMOUTH - MYBR CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP 1 - HOURLY-REPORT PAGE 5- 1 -----HERM-CEN HERM-CEN COOLING-COOLING-CTANK-ST CTANK-ST PLANT PLANT T-CHLR T-CHLR TWR TWR ORAGE ORAGE LOAD BLECTRIC FAN DUMP ENERGY ENERGY SYS COOL TOTAL USE RLRC RLEC PRICESCED STORED LOAD COOLING BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ----(4) ---- (20) ---- (21) ----(1) ----(2) ----(9) 820 1 8096428. 1579772. 273323. 96264 0. 6100000. 1693705. 8096428. 820 2 7758868. 1484915. 273323. 96264. 0. 6100000. 1356146. 7758868. 820 3 8010178. 1537843. 273323. 96264. 0. 6100000. 1607456 8010178 820 4 7221889. 1364512 273323. 96264. Ο. 6100000. 819166. 7221889. 820 5 6973031. 1302047. 273323. 96264. 0. 6100000. 570308. 820 6 6775062 1257684. 273323. 96264. ο. 6100000. 372339 6775062 820 7 4922699. 897925. 270555 96264. 4075616. 544360. 4922699. 820 8 0. 879383. ٥. 0. 0. 0. 576661. 0. 820 9 0. ٥. 1387981. 1085259. ٥. ο. ٥. 82010 ο. 1558670. 0. 1255947. 0 82011 0. ٥. 0. 0. 1033505. 730782. 0. 82012 0. 0. 0. 0. 1851636. σ. 1548914. 82013 ٥. 1725235. 0. 0. 1422512 0. 82014 ٥ 0. Ο. Ο. 1687046. Ο. 1384324. 0. 0. 0. 0. 0. 1705681. 0. 1402959. 82016 0. 0. 1630507. ō. 1327784 ο. 82017 ٥. 0. 0. 0. 1463423. 1160700. 0. 82018 0. 0. 0. 0. 493246 ο. 190523. 82019 321140. 0. 18418. 0. 6488580. 1204361. 82020 273323. 96264. 0. 6100000. 85857. 6488580. 6451083. 1195941. 273323. 96264 ٥ 6100000 48360. 6451083. 82022 3914545. 743357. 204145. 96264. 3553600. 0. 58222. 3914545. 82023 348922. 165933. 122609 96264. 46200. 348922. 302722. 143918. 122012. 96264 ٥ ٥. DAILY SUMMARY (AUG 20) 0. 8096428. 0. 0. 0. 0. ο. 273323. MX 1579772. 96264. 1851636. 6100000. 1693705. 8096428. SM 67264008. 12878207 2905905. 1155173. 15737450. 56429216. 19306902. 67264008. AV 2802667. 536592. 121079. 48132. 655727. 2351217. 804454 2802667. MONTHLY SUMMARY (AUG) 0. 9967083. 0. ο. 0. ο. 0. MX 2178282. 273323. 96264. 7281769. 6100000. 6979047. 9967083. 474515584. 96487104. 15792929. 5775866. 291800672. 324342752 405646880. 474515584. AV 3954297. 804059. 131608. 48132. 2431672. 2702856. 3380391. 3954297 YEARLY SUMMARY MN 0. 0. Ο. 0. 0. 0. 9967083. 2178282. MX 273323. 96264. 7281769. 6100000. 6979047. 9967083. 474515584. 96487104. 15792929. 5775866. 291800672 324342752. 405646880. 474515584. ΔV 3954297. 804059. 48132. 2431672. 2702856. 3380391. 3954297

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DEVEL 1	OPMENT INC	DOE-2.1D	6/13/1996	23: 2:27 PDL RUN
MYER	CENTER, NJ F	PA 19603 TMOACO - SIM MO HOURLY-REPORT	8 4130.0 CA H20 ONLY W/	5 FT. MONMOUTH - OA SCHD1
			·	PAGE 1- 1
- - MMDDH	H HERM-CEN	LEDM CEN		GOOT TYG
. 11.15.511	T-CHLR LOAD	T-CHLR ELECTRIO	TWR FAN	G- COOLING- TWR PUMP
	BTU/HR	BTU/HR	BTU/HR	ELEC BTU/HR
	(1)	(3)	(20	(21)
MONT	HLY SUMMARY (MAY)		
M M	N 3027 X 63484	22. 14276 87. 125903	52. 1064 33. 1404	.46. 90465. .10. 90465.
S	M 3920431	68. 818516 <i>6</i>	54. 174 327	74. 11941428.
A	V 29700	24. 62008	38. 1320	90465.
MONT	HLY SUMMARY (JUN)	33.64	37. 90465.
M	X 72716	29. 150887	70. 1164	90465. 10. 90465.
	M 11945515	52. 23232662	24. 368073	04. 23882852.
A	V 45248	17. 88002	25. 1394	22. 90465.
MONT	HLY SUMMARY (JUL)	-	
M	X 70500	92. 43024 99 14399 <i>6</i>	5. 1339 59 1404	28. 90465. 10. 90465.
s	M 11915952	64. 22857468	38. 336852	84. 21711684.
A	V 49649	81. 95239	95. 1403	55. 90465.
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MX	7281769.	1508870.	140410.	90465.
SM	5176392704.	1028095104.	174344768.	115071920.
AV	4069491.	808251.	137064.	90465.

ECO-10 off-public EXISTING

READING, MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHOll RP_1	DEVELOPME	ENTECH ENGINEE	RING OE-2.1D 6/13	EZDOE - EL /1996 23:	ITE SOFTWARE 8:17 PDL RUN
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SM 112066016. 47640048. 28072178. 22797272.					
	AV	444706.			

MN	302722.	142762.	106446.	90465.
MX	5349443.	1003488.	140410.	90465.
SM	3625837824.	959114240.	306775008.	217116832.
AV	1510766.	399631.	127823.	90465.

ECO-10 CHILLE PROPOSED OCC-PENSOSHGE

RP_1	- HOUR	ERING 19603 LLY-REPORT	#200E - EL: 4130.05 FT	ITE SOPTWARE DE . MONMOUTH - MY	EVELOPMENT INC	DOB-2.1D FTMOACO - SIM N	6/14/1996 MCA H20 ONLY W/0	22:50:46 PDL RUN DA SCHD1 PAGE 1-
MMDDHH	HERM-CEN	HERM-CEN	COOLING-	COOLING-	CTANK-ST	CTANK-ST	PLANT	PLANT
	T-CHLR	T-CHLR	TWR	TWR	ORAGE	ORAGE		
	LOAD	BLECTRIC	PAN	PUMP	ENERGY	ENERGY	SYS COOL	TOTAL
		USB	ELEC	BLEC	RELEASED	STORED	LOAD	COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
MONTHLY	SUMMARY (MAY)							
MN	0.	0.	0.	0.	0.	0. 6100000. 496733568.	0.	0.
MX	10089978.	2124376.	273323.	96264.	1955849.	6100000.	5046720.	10089978
SM	656171456.	136216416.	33623428.	18482770.	41366828.	496733568.	124518680	656171456
AV	2603855.	540541.	133426.	73344.	164154.	1971165.	494122.	2603855.
MONTHLY	SUMMARY (JUN)							
MIN	0.	0.	0.	0.	0.	0. 6100000.	0.	0.
MX	10003975.	2162982.	273323.	96264.	3572792.	6100000.	4619729.	10003975
SM	1962902784.	399551264.	78906672.	34655204.	228377680.	1394512768.	658726208.	1962902784
AV		876209.				3058142.		
MONTHLY	SUMMARY (JUL)							
MN	0.	0.	0.	0.	0.	0. 6100000.	0.	0.
MOX	9859441.	2119222.	273323.	96264.	3674340.	6100000.	4080833.	9859441.
SM	2315854336.	469431840.	87182632.	35810376.	363932832.	1592337536.	934877056	2315854336
AV						3159400.		
MONTHLY	SUMMARY (AUG)							
MOV	0.	0.	0.	0.	0.	0. 6100000.	0.	0.
MX	9967083.	2178282.	273323.	96264.	3652677.	6100000.	4592566.	0. 9967083.
SM	2195670528.	449867264.	84663120.	35810376.	191632736.	1514996352.	730578496.	2195670528.
VA	4691604.		180904.					4691604.
MONTHLY	SUMMARY (SEP)							
MIN	0.	0.	0.	0.	0.	0. 6100000.	0.	0.
MIX	9191487.	1906205.	273323.	96264.	3143705.	6100000.	3688951.	9191487.
SM	1444583552.	299871680.	69593840.	34655204.	194722208.	1079039488.	418591904.	1444583552.
AV	3086717.	640751.	148705.					
MONTHLY	SUMMARY (OCT)							
MIN	0.	0.	0.	0.	0.	0.	0.	0.
MDX	6916221.	1285772.	273323.	96264.	2663557.	6100000.	2360835.	6916221.
SM	302243744.	69409032.	24934110.	17327596.	45631888.	0. 6100000. 236072096.	2360835. 35517524.	302243744.
AV	1199380.	275433.	98945.	68760.	181079.	936794.	140943.	1199380.
	SUMMARY	0.						
MIN	0.	0.	0.	0. 96264.	0.	0.	0.	0.
MX	10089978.	2178282.	273323.	96264.	3674340.	0. 6100000.	5046720.	10089978.
SM				176741536.	1065664128.	6313691648.	2902809856.	8877425664.
AV	3698927.	760145.	157877.	73642.			1209504.	

1200-11

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/15/1996 1:24:15 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

BQUIPMBNT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS				
HW-BOILER	0.147	4.712	2 20 3	4.712 5088				
HERM-CENT-CHLR	0.398	11.449	5 16 2	8.300 2680				
COOLING-TWR	0.302	13.624	5 16 2	5.063 7087				
CTANK-STORAGE	0.752	3.700	10 14 16	44.000 1836				

EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/14/1996 23:53:45 PDL RUN 1
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY M/OA SCHD1
PAGE 2- 1

ENTECH ENGINEERING
DING, PA 19603
= HOURLY-REPORT ENTEC: READING, RP_1

	HERM-CEN T-CHLR	HERM-CEN T-CHLR	COOLING- TWR	COOLING- TWR	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	BLECTRIC	FAN	PUMP	ENERGY	ENERGY	SYS COOL	TOTAL
		USB	BLEC	BLEC	RELEASED	STORED	LOAD	COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
17 1	8604961.	1746886.	273323.	96264.	0.	6100000.	2202239.	8604961.
17 2	8334408.	1677937.	273323.	96264.	0.	6100000.	1931685.	8334408.
317 3	3431654.	699418.	190706.	96264.	0.	1309248.	1819684.	3431654.
317 4	1963390.	516442.	129866.	96264.	0.	0.	1660668.	1963390.
317 5	1897030.	506345.	129413.	96264.	0.	0.	1594308.	1897030.
317 6	2712147.	598404.	134175.	96264.	0.	0.	2409424.	2712147.
317 7	4382274.	835591.	196199.	96264.	0.	0.	4079552.	4382274.
317 8	1524305.	489328.	123001.	96264.	3700000.	0.	4921582.	1524305.
317 9	2084334.	552305.	126479.	96264.	3700000.	0.	5481611.	2084334.
31710	2305673.	581841.	129642.	96264.	3700000.	0.	5702950.	2305673.
31711	2704204.	623467.	130526.	96264.	3700000.	0.	6101481.	2704204.
31712	2958178.	665086.	131350.	96264.	3700000.	0.	6355456.	2958178.
31713	3064645.	684241.	132624.	96264.	3700000.	0.	6461923.	3064645.
31714	3057686.	678704.	131905.	96264.	3700000.	0.	6454963.	3057686.
31715	2689315.	633799.	130502.	96264.	3700000.	0.	6086592.	2689315.
31716	1730626.	517093.	124716.	96264.	3700000.	0.	5127904.	1730626.
31717	1517008.	491757.	122012.	96264.	3700000.	0.	4914286.	1517008.
31718	1095852.	454859.	118174.	96264.	3700000.	0.	4493130.	1095852.
31719	612431.	317287.	114473.	96264.	3273472.	0.	3583180.	612431.
31720	9720236.	2050749.	273323.	96264.	0.	6100000.	3317514.	9720236.
31721	9415574.	1978712.	273323.	96264.	0.	6100000.	3012852.	9415574.
31722	9143795.	1893147.	273323.	96264.	0.	6100000.	2741072.	9143795.
31723	8946748.	1830261.	273323.	96264.	0.	6100000.	2544025.	8946748.
B1724	8767966.	1782318.	273323.	96264.	0.	6100000.	2365244.	8767966.
DAILY	SUMMARY (AUG 17)							
MIN	612431.	317287.	114473.	96264.	0.	0.	1594308.	612431.
MX	9720236.	2050749.	273323.	96264.	3700000.	6100000.	6461923.	9720236.
SM	102664432.	22805980.	4209023.	2310346.	43973472.	44009248.	95363320.	102664432.
AV	4277685.	950249.	175376.	96264.	1832228.	1833719.	3973472.	4277685.

ENTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/14/1996 23:53:45 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

	HERM-CEN T-CHLR	HERM-CEN T-CHLR	COOLING- TWR	COOLING- TWR	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	BLBCTRIC	FAN	PUMP	ENERGY	ENERGY	SYS COOL	TOTAL
		USB	ELEC	BLBC	RELEASED	STORED	LOAD	COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
318 1	8636384.	1747349.	273323.	96264.	0.	6100000.	2233661.	8636384.
18 2	8434174.	1695263.	273323.	96264.	0.	6100000.	2031452.	8434174.
318 3	3547694.	712602.	193209.	96264.	0.	1310064.	1934908.	3547694.
318 4	2064430.	524006.	131377.	96264.	0.	0.	1761707.	2064430.
318 5	1877811.	501406.	131123.	96264.	0.	0.	1575088.	1877611.
818 6	2772317.	599129.	135208.	96264.	0.	0.	2469595.	2772317.
818 7	4335458.	823574.	198238.	96264.	0.	G.	4032736.	4335458.
318 8	1556840.	486717.	124188.	96264.	3700000.	0.	4954118.	1556840.
18 9	2108053.	551507.	128301.	96264.	3700000.	0.	5505331.	2108053.
31810	2518376.	600111.	130143.	96264.	3700000.	0.	5915653.	2518376.
81811	2901525.	653210.	131688.	96264.	3700000.	0.	6298802.	2901525.
81812	2980344.	668098.	132830.	96264.	3700000.	0.	6377622.	2980344.
81813	3379866.	719375.	134816.	96264.	3700000.	0.	6777144.	3379866.
31814	3581769.	748129.	134542.	96264.	3700000.	0.	6979047.	3581769.
31815	3246937.	710006.	131129.	96264.	3700000.	0.	6644215.	3246937.
81816	2240300.	591015.	124679.	96264.	3700000.	0.	5637577.	2240300.
31817	1973811.	559647.	122589.	96264.	3700000.	0.	5371089.	1973811.
31818	1461631.	504285.	118057.	96264.	3700000.	0.	4858909.	1461631.
81819	1310031.	488012.	116561.	96264.	3271744.	0.	4279052.	1310031.
31820	10349036.	2085808.	273323.	192529.	0.	6100000.	3946313.	10349036.
31821	10132552.	2042872.	273323.	192529.	0.	6100000.	3729829.	10132552.
81822	9917701.	2001510.	273323.	192529.	0.	6100000.	3514978.	9917701.
81823	9715632.	2127740.	273323.	96264.	0.	6100000.	3312910.	9715632.
81824	9510250.	2062854.	273323.	96264.	0.	6100000.	3107528.	9510250.
	UMMARY (AUG 18)							
MN	1310031.	486717.	116561.	96264.	0.	0.	1575088.	1310031.
MX	10349036.	2127740.	273323.	192529.	3700000.	6100000.	6979047.	10349036.
SM	110552920.	24204222.	4231939.	2599139.	43971744.	44010064.	103249272.	110552920.
AV	4606372.	1008509.	176331.	108297.	1832156.	1833753.	4302053.	4606372.

ENTECH ENGINEERING EZDOR - BLITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/14/1996 23:53:45 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

RF_1 = HOURLY-REPORT		TISTO II. POMOGIN - MISK CENTER, NO					PAGE 4	
	HERM+CEN T-CHLR	HBRM-CEN T-CHLR	COOLING- TWR	COOLING-	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	BLECTRIC	PAN	PUMP	ENERGY	ENERGY	SYS COOL	TOTAL
		USE	BLEC	BLEC	RELEASED	STORED	LOAD	COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
319 1	9253977.	1988647.	273323.	96264.	0.	6100000.	2851255.	9253977.
319 2	9131609.	1940816.	273323.	96264.	0.	6100000.	2728887.	9131609.
19 3	4136370.	834952.	190861.	96264.	0.	1311616.	2522031.	4136370.
319 4	2751367.	628152.	130092.	96264.	0.	0.	2448645.	2751367.
319 5	2710398.	622943.	129844.	96264.	0.	0.	2407676.	2710398.
19 6	3472536.	726455.	133998.	96264.	0.	0.	3169813.	3472536.
119 7	4895288.	957644.	196895.	96264.	0.	0.	4592566,	4895288.
19 8	1913660.	540565.	125266.	96264.	3700000.	0.	5310938.	1913660.
19 9	2422802.	596014.	128818.	96264.	3700000.	0.	5820079.	2422802.
1910	2508665.	606618.	130125.	96264.	3700000.	0.	5905942.	2508665.
1911	2679204.	624143.	130397.	96264.	3700000.	0.	6076482.	2679204.
1912	2827596.	647588.	131290.	96264.	3700000.	0.	6224874.	2827596.
1913	3186882.	696752.	131973.	96264.	3700000.	0.	6584160.	3186882.
1914	3012683.	681800.	131702.	96264.	3700000.	0.	6409960.	3012683.
1915	2610945.	623708.	130027.	96264.	3700000.	0.	6008223.	2610945.
1916	1613110.	504844.	122850.	96264.	3700000.	0.	5010388.	1613110.
1917	1222273.	466486.	118388.	96264.	3700000.	0.	4619550.	1222273.
1918	753642.	394563.	115478.	96264.	3700000.	0.	4150920.	753642.
1919	581505.	299114.	112712.	96264.	3272480.	0.	3551262.	581505.
1920	9672672.	2049826.	273323.	96264.	0.	6100000.	3269949.	9672672.
1921	9353499.	1951686.	273323.	96264.	0.	6100000.	2950777.	9353499.
1922	9099245.	1863682.	273323.	96264.	0.	6100000.	2696522.	9099245.
1923	8820708.	1781487.	273323.	96264.	0.	6100000.	2417985.	8820708.
31924	8553722.	1705005.	273323.	96264.	0.	6100000.	2151000.	8553722.
	SUMMARY (AUG 19)							
MN	581505.	299114.	112712.	96264.	0.	0.	2151000.	581505.
MX	9672672.	2049826.	273323.	96264.	3700000.	6100000.	6584160.	9672672.
SM	107184344.	23733492.	4203975.	2310346.	43972480.	44011616.	99879880.	107184344.
AV	4466015.	988896.	175166.	96264.	1832187.	1833817.	4161662.	4466015.

PA 19603 HOURLY-REPORT READING, 19603 4130.05 PT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 RP 1 PAGE 5- 1 -----HERM-CEN HERM-CEN COOLING-COOLING-CTANK-ST CTANK-ST PLANT PLANT T-CHLR T-CHLR TWR TWD ORAGE ORAGE BLECTRIC PUMP LOAD FAN SYS COOL RNRRGY RNEEGY TOTAL. USE BLEC BLEC RELEASED STORED LOAD COOLING BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR BTU/HR ----(1) ----(3) ---- (20) ---- (21) ----(1) ----(4) ---- (2) ----(9) 820 1 8096428. 1579772. 273323. 96264. 0. 6100000. 1693705 8096428 820 2 7758868. 1484915. 273323. 96264. 6100000. 0. 1356146. 7758868. 200639. 1607456. 820 3 1220147 645250 96264. 0. 1309968. 3220147. 1121888. 820 4 417839. 129259. 96264. 0. ٥. 819166 1121888. 127424. 96264. 570308. 0. 0. 873031. 820 6 675061 319185. 125392. 96264. ٥. 372339. 675061. 820 7 847083. 394195. 129385. 96264. 0. 0. 544360. 847083. 820 8 ٥. 879383. 0. 0. 576661 0. ٥. 0 820 9 0. ٥. 0. 1387981. 1085259. 0. 82010 ο. 0 D 0. 1558670. 1255947. 82011 ٥. 0. 0. 0. 1033505. ο. 730782. ο. 82012 0. 1851636. 1548914. 0. 82013 ٥. 0. 0. Ο. 1725235. 1422512. 0. 82014 0. 0. 0. ٥. 1687046. 0. 1384324. 82015 0. 0. 1705681. 0. 1402959. n. 82016 0. 0. 0. 1630507. 0. 82017 0. ο. 0. 0 1463423. 0. 1160700. 82018 0. 0. 0. 0. 493246. 190523. 0. 0. 82019 0. 0. 0. 0. 18418. 0. 6488580. 1204361. 273323. 82020 95264 ο. 6100000 85857. 6488580 6451083. 1195941. 273323. 96264. 6100000. 0. 48360. 6451083. 96264. 82022 3918737. 743976. 204172. ٥. 3557792. 3918737. 82023 348922. 165933. 122609. 96264 O 0 46200. 348922 143918. 96264. Ο. 0. 0. 302722. DAILY SUMMARY (AUG 20) 0. ٥. 0. 0. 8096428. 1579772. 273323. MY 96264. 1851636. 6100000. 1693705. 8691497. SM 40102552. 2254184. 1155173. 15737450. 29267760. 19306902 40102552 1670940. 93924. 48132. 655727. 1219490. 804454. 1670940. MONTHLY SUMMARY (AUG) 0. 0. 0. 10349036. 2127740. 273323. MY 192529. 3700000. 6100000. 6979047. 10349036. 455650208. 100587112. SM 19114532. 10685350. 205307968. 191631328. 405646880 455650208. 3797085. 838226. 89045. 1596928. 1710900. 3380391. 3797085. YEARLY SUMMARY MN Ο. 2127740. 273323. 192529. 10349036. MX 3700000. 6100000. 6979047. 10349036. 455650208. 100587112. SM 19114532. 10685350. 191631328 205307968 405646880 455650208. AV 3797085. 838226 159288. 1596928. 1710900. 3380391. 3797085.

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

DOR-2.1D 6/14/1996

23:53:45 PDI, RIN 1

ENTECH ENGINEERING

ECO-11 ON-PEXK

		19603	4130.05 PT	TE SOFTWARE DI . MONMOUTH - M	EVELOPMENT INC YER CENTER, NJ	DOB-2.1D FTMOACO - SIM 1	6/15/1996 MCA H20 ONLY W/0	
P_1	= HOUR	RLY-REPORT						PAGE
MODHH	HERM-CEN T-CHLR	HERM-CEN T-CHLR	COOLING- TWR	COOLING- TWR	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	BLECTRIC	FAN BLBC	PUMP BLEC	ENERGY RELEASED	ENERGY STORED	SYS COOL LOAD	TOTAL COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
MONTHLY	SUMMARY (MAY)							
MIN	0.	0.	0.	0.	302722,	0.	0.	0.
MX	2648487.	616376.	135088.	96264.	3700000.	0.		2648487.
SM	52971264.	18375018.	6362738.	5005751.	338857088.	0.		2648487. 52971264.
AV	401297.	139205.	48203.	37922.	2567099.	0.	2665674.	401297.
MONTHLY	SUMMARY (JUN)							
MIN	0.	0.	0.	0.	1114873.	0.	812151.	0.
MX	3571629.	751448.		96264.	3700000.	0.	6968906.	3571629.
SM	282317312.	86843608.	24336650.	18771562.	914471296.	0.		282317312.
AV	1069384.	328953.	92184.	71104.	3463907.	0.	4230568.	1069384.
	SUMMARY (JUL)							
MIN	0.	0.	0.	0.	2356196.	0.	2053473.	0.
MX	3350099.	715213.	135483.	96264.	3700000.	0.	6747377.	3350099.
SM	316338784.	97399040.	27898160.	21274440.	872915456.	0.	1116600832.	316338784.
AV	1318078.	405829.	116242.	88644.	3637148.	0.		1318078.
	SUMMARY (AUG)							
MN	0.	0.	0.	0.	1092452.	0.	789730.	0.
MX	3581769.	748129.	135909.	96264.	3700000.	0.	6979047.	3581769.
SM	366838848.	109692824.	30728180.	23488520.	985642496.	٥.	1268929792.	366838848.
AV	1329126.	397438.	111334.	85103.	3571169.	0.	4597572.	1329126.
	SUMMARY (SEP)							
MN	0.	0.		0.	483018.	0.	180296.	0.
MX	2535474.	609965.		96264.	3700000.	0.	5932752.	2535474.
SM	121760576.	41834348.	14530494.	11455467.	740704128.	0.	786178688.	121760576.
ÀV	483177.	166009.	57661.	45458.	2939302.	0.	3119757.	483177.
	SUMMARY (OCT)	_	_					
MN	0.	0.	0.	0.	302722.	0.		0.
MX	1314499.	447063.	132330.	96264.	3700000.	0.	4711777.	1314499.
SM AV	4782947. 44287.	1908980. 17676.	864847. 8008.	673851. 6239.	175286672. 1623025.	0. 0.	147375584. 1364589.	4782947. 44287.
723DT.V	SUMMARY					0.	1301309.	44207.
MN	O.	^	•		20005-	_		
MX	3581769.	0. 751448.	0. 135909.	0.	302722.	0.		0.
SM				96264.	3700000.	0.		3581769.
	1145009792.	356053824.	104721072.	80669584.	4027877376.	0.	4787823616.	1145009792.
À۷	900165.	279917.	82328.	63419.	3166570.	0.	3764012.	900165.

ECO-11 0f2-2612

REA	DING, PA	ERING 19603 LLY-REPORT				DOE-2.1D FTMOACO - SIM N		1:20: 2 PDL RUN DA SCHD1 PAGE 1-
MDDHH	HERM-CEN T-CHLR	HERM-CEN T-CHLR	COOLING- TWR	COOLING- TWR	CTANK-ST ORAGE	CTANK-ST ORAGE	PLANT	PLANT
	LOAD	BLECTRIC USE	PAN ELEC	PUMP BLEC	ENERGY RELEASED	ENERGY STORED	SYS COOL	TOTAL COOLING
	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR	BTU/HR
	(1)	(3)	(20)	(21)	(1)	(4)	(2)	(9)
MONTHLY	SUMMARY (MAY)							
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	11449442.	2174647.	273323.	192529.	1955849.	6100000.	5046720.	11449442.
SM	575690880.			18675298.				
VA	2284488.		125474.		164154.			2284488.
MONTHLY	SUMMARY (JUN)							
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10062979.		273323.	192529.	3572792.	6100000	0. 4619729.	10062979
SM	1704813056.					1136423424.		
AV	3738625.	776966.	159433.	76209.		2492157.		
MONTHLY	SUMMARY (JUL)							
MN	0.	0.	0.	0.	٥.	0.	0.	0.
MX	9859441	2116499.	273323.	96264	3674340	6100000.	4080833	0950441
SM	1973575936.		78867176	96264. 35810376.	363932832	1250059520.	934877056.	
AV	3915825.		156482.					3915825.
MONTHLY	SUMMARY (AUG)							
MIN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10349036.	2127740.	273323.	192529.	3652677.	0. 6100000.	4592566.	10349036.
SM	1846620544.	387588928.	76387736.	36099168.	191632736.	1166000640	730578496.	1846620544
AV	3945771.							3945771.
MONTHLY	SUMMARY (SEP)							
MN	0.	0.	0. 273323.	0.	0.	0.	0.	ō.
MX	9191487.	1893722.	273323.	96264.	3143705.	6100000.	3688951.	9191487.
SM	1309061632.	276886496.	273323. 66190880.	34655204.	194722208.	943517568.		
AV	2797140.				416073.	2016063.	894427.	
MONTHLY	SUMMARY (OCT)							
MN	0.	0.	0.	0.	0.	٥.	0.	0.
MX	6916221.			96264.			2360835.	6916221.
SM	293388768.	68229096.	24710630.	17327596.	45631888.		35517524.	6916221. 293388768.
AV	1164241.	270750.	98058.	68760.	181079.	901655.	140943.	
	SUMMARY							
MIN	٥.	0.				٥.	0.	0.
MX	11449442.	2174647.	273323.	192529.	3674340.			
SM	7703150592.	1619990528.	350477184.	177319120.	1065664128.			
AV	3209646.	674996.	146032.	73883.	444027.	2141446.	1209504.	

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EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOS-2.1D 6/18/1996 20:50: 7 EDL RUN 1
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
TY HER BAD COSTS ENTECH ENGINEERING READING, PA 19603

	BLECTRIC	FUEL-OII
MONTH	UNIT-	UNIT:
	3413.00	138690.00
Jan		
ENERGY CONSUMPTION (UNIT/MO)	492409.	9619
PEAK DEMAND (UNIT/HR)	1462.	37
TOTAL COST (\$)	50385.11	5675.3
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443235.	7702
PEAK DEMAND (UNIT/HR)		41
TOTAL COST (\$)	1462. 46606.48	4543.95
MAR		
ENERGY CONSUMPTION (UNIT/MO)	507936.	5389
PEAK DEMAND (UNIT/HR)	1460.	24
TOTAL COST (\$)	51708.00	
APR	32700.00	52.5.2
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667
PEAK DEMAND (UNIT/HR)	1450.	
TOTAL COST (\$)	48771.78	983.5
MAY	40//1./0	203.2
	569655.	209
ENERGY CONSUMPTION (UNIT/MO)		
PEAK DEMAND (UNIT/HR)	1922.	4
TOTAL COST (\$)	60200.39	123.5
JUN		0
ENERGY CONSUMPTION (UNIT/MO)	700313.	
PEAK DEMAND (UNIT/HR)	1992.	0
TOTAL COST (\$)	72612.47	0.0
JUL	205050	
ENERGY CONSUMPTION (UNIT/MO)	706960.	0
PEAK DEMAND (UNIT/HR)	1987.	0
TOTAL COST (\$)	72770.63	0.0
AUG	726770	•
ENERGY CONSUMPTION (UNIT/MO)	736229.	0
PEAK DEMAND (UNIT/HR)	1989.	0
	75364.64	0.0
SBP		
ENERGY CONSUMPTION (UNIT/MO)		0
PEAK DEMAND (UNIT/HR)	1929.	0
TOTAL COST (\$)	68992.77	0.0
oct		
ENERGY CONSUMPTION (UNIT/MO)	540086.	323
PEAK DEMAND (UNIT/HR)	1831.	9
TOTAL COST (\$)	57068.06	190.3
VOV		
ENERGY CONSUMPTION (UNIT/MO)		3663
PEAK DEMAND (UNIT/HR)	1459.	23
TOTAL COST (\$)	48288.68	2160.9
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491305.	8407
PEAR DEPARD (UNII) IR)	1402.	28
TOTAL COST (\$)	50302.42	4960.1
TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6787130.	36978
PEAK DEMAND (UNIT/HR)	1992.	41
	703071.44	21817.0

VACILBUE PARTIS

EXISTIB DONT TONE

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 20:50: 7 EDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

ютн	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
AN								
	4OPPKKWH	492	193243.	13894.16	787.	787.	0.00	
	EONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	
	BONDKKMH	252	299165.	23963.10	1462.	1462.	0.00	
EB								50385.11
RB	40PPKKWH	444	173699.	12488.97	787.	787.	0.00	
	BONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	
	BONPKKWH	228	269534.	21589.66	1462.	1462.	0.00	
	DOMPKANII	220	203334.	21303.00	1402.	1462.	0.00	46606.48
IAR								40000.40
	40FPKKWH	468	182063.	13090.36	787.	787.	0.00	
	EONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	
	BONPKKWH	276	325872.	26102.35	1460.	1460.	0.00	
								51708.00
PR								
	40PPKKWH	468	174886.	12574.32	787.	787.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	
	BONDKKMH	252	296759.	23770.44	1450.	1450.	0.00	
								48771.78
IAY								
	40FPKKWH	492	231908.	16674.15	1058.	1058.	0.00	
	BONPKDMHTG	252	337747.	0.00	1922.	1922.	16472.73	
	BONPKKWH	252	337747.	27053.51	1922.	1922.	0.00	
JUN								60200.39
OIN	4OFPKKWH	456	286599.	20606.45	1092.	1092.	0.00	
	BONPKDMCL	264	413713.	0.00	1992.	1992.	18867.59	
	BONPKKWH	264	413713.	33138.43	1992.	1992.	0.00	
					22221		*****	72612.47
TUL.								
	4OPPKKWH	504	325704.	23418.14	1076.	1076.	0.00	
	BONPKDMCL	240	381256.	0.00	1987.	1987.	18813.90	
	BONDKKMH	240	381256.	30538.59	1987.	1987.	0.00	
								72770.63
AUG			****					
	4OPPKKWH	468	297876.	21417.29	1099.	1099.	0.00	
	BONPKDMCL	276	438353.	0.00	1989.	1989.	18835.25	
	BONDKKWH	276	438353.	35112.10	1989.	1989.	0.00	75364 64
SEP								75364.64
JAP	40FPKKWH	468	281033.	20206.26	1069.	1069.	0.00	
	BONPKDMCL	252	380955.	0.00	1929.	1929.	18272.00	
	BONPKKWH	252	380955.	30514.52	1929.	1929.	0.00	
				30320.32	-,-,.		0.00	68992.77
OCT								
	4OFPKKWH	504	229810.	16523.32	965.	965.	0.00	
	EONPKDMHTG	240	310278.	0.00	1831.	1831.	15691.49	
	EONPKKWH	240	310278.	24853,25	1831.	1831.	0.00	
								57068.06

ENTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 20:50: 7 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

								CONTINUED
монтн	CHARGE - ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV								
	4OPPKKWH	480	182353.	13111.20	787.	787.	0.00	
	BONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	
	BONPKKWH	240	283017.	22669.67	1459.	1459.	0.00	
								48288.68
DBC								
	40PPKKWH	492	192529.	13842.83	787.	787.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
	EONPKKWH	252	298773.	23931.73	1462.	1462.	0.00	
								50302.42
	· -							
TOTAL			6787130.	521084.78			181986.66	703071.44

VINNO 10- ECO-12

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 10:22:31 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

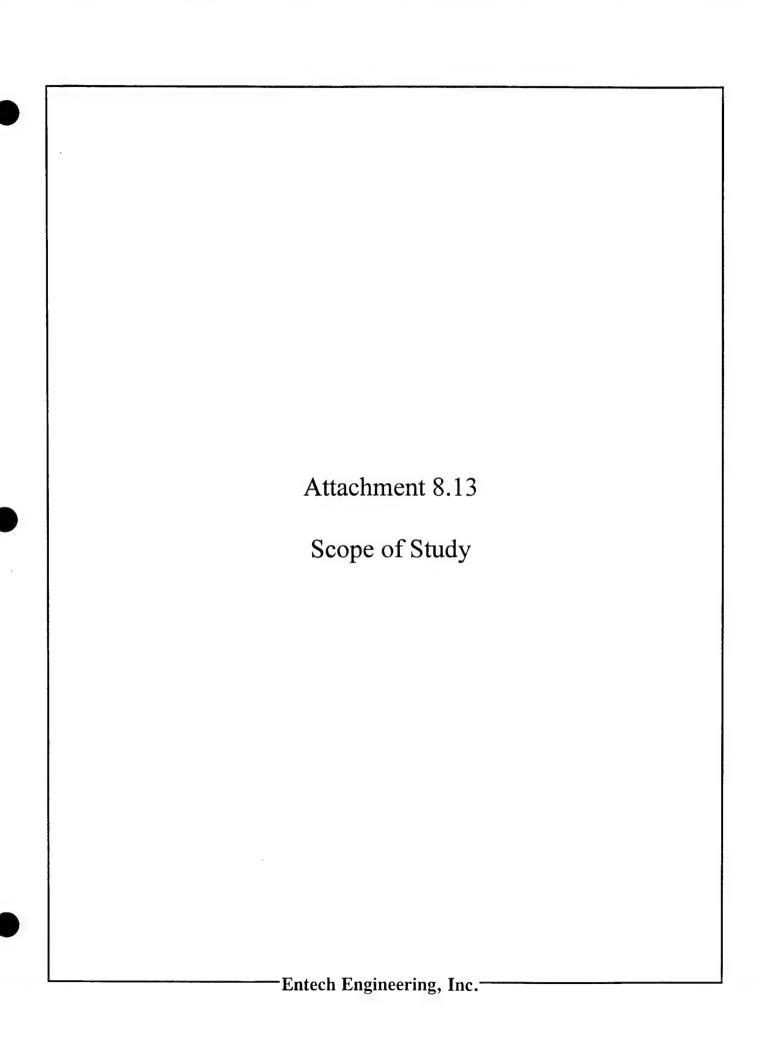
•	BLBCTRIC	FUEL-OIL	
MONTH	UNIT-	UNIT=	
	3413.00	138690.00	
		*******	YELLEGUE DUNGOTA
JAN			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ENERGY CONSUMPTION (UNIT/MO)	492409.	9619.	100.600
PEAK DEMAND (UNIT/HR)	1462.	37.	V / L
TOTAL COST (\$)	50385.11	5675.37	,
FEB	50505122	3073.37	
ENERGY CONSUMPTION (UNIT/MO)	443235.	7702.	
PEAK DEMAND (UNIT/HR)			1000 F FC - 1840
	1462.	41.	
TOTAL COST (\$)	46606.48	4543.95	`
MAR			
ENERGY CONSUMPTION (UNIT/MO)	507936.	5389.	
PEAK DEMAND (UNIT/HR)	1460.	24.	
TOTAL COST (\$)	51708.00	3179.24	
APR			
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667.	
PEAK DEMAND (UNIT/HR)	1450.	19.	
TOTAL COST (\$)	48771.78	983.57	
MAY	407720	303.37	
ENERGY CONSUMPTION (UNIT/MO)	549054.	200	
PEAK DEMAND (UNIT/HR)		209.	
	1907.	4.	
TOTAL COST (\$)	58547.22	123.51	
JUN			
ENERGY CONSUMPTION (UNIT/MO)	668670.	0.	
PEAK DEMAND (UNIT/HR)	1988.	0.	
TOTAL COST (\$)	70228.48	0.00	
JUL			
ENERGY CONSUMPTION (UNIT/MO)	676374.	0.	
PEAK DEMAND (UNIT/HR)	1983.	0.	
TOTAL COST (\$)	70481.09	0.00	
AUG			
ENERGY CONSUMPTION (UNIT/MO)	705402.	0.	
PEAK DEMAND (UNIT/HR)	1986.	0.	
TOTAL COST (\$)	73053.52	0.00	
SEP	,3033.32	0.00	
ENERGY CONSUMPTION (UNIT/MO)	626595.		
PEAK DEMAND (UNIT/HR)	1915.	0.	
		0.	
TOTAL COST (\$)	66227.12	0.00	
OCT			
ENERGY CONSUMPTION (UNIT/MO)	518685.	323.	
PEAK DEMAND (UNIT/HR)	1801.	9.	
TOTAL COST (\$)	55224.77	190.39	
VON			
ENERGY CONSUMPTION (UNIT/MO)	465371.	3663.	
PEAK DEMAND (UNIT/HR)	1459.	23.	
TOTAL COST (\$)	48288.68	2160.91	
DEC			
ENERGY CONSUMPTION (UNIT/MO)	491305.	8407.	
PEAK DEMAND (UNIT/HR)	1462.	28.	
TOTAL COST (\$)	50302.42	4960.15	
10145 COS1 (\$)	30302.42	4900.15	
TOTAL			
ENERGY CONSUMPTION (UNIT/YR)	6616680.	36070	
		36978.	
PEAK DEMAND (UNIT/HR)	1988.	41.	
TOTAL COST (\$)	689824.69	21817.08	

RMTECH ENGINEERING BZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 10:22:31 EDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

	CHARGE-		CONSUMPTION	ENERGY	MEASURED	BILLING	DEMAND	TOTAL
ONTH	ASSIGNMENT	LENGTH	BY C-A	CHARGE	DEMAND	DEMAND	CHARGE	CHARGES
	(U-NAME)	(HR/MO)	(KWH)	(\$)	(KW)	(KW)	(\$)	(\$)
AN								
	40PPKKWH	492	193243.	13894.16	787.	787.	0.00	
	BONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	299165.	23963.10	1462.	1462.	0.00	50005 ···
EB								50385.11
	40PPKKWH	444	173699.	12488.97	787.	787.	0.00	
	BONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	
	EONPKKWH	228	269534.	21589.66	1462.	1462.	0.00	
AR								46606.48
n.r.	4OPPKKWH	468	182063.	13090.36	787.	787.	0.00	
	BONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	
	BONPKKWH	276	325872.	26102.35	1460.	1460.	0.00	
								51708.00
PR	4OFPKKWH	468	174886.	12574.32	787.	787.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	
	BONPKKWH	252	296759.	23770.44	1450.	1450.	0.00	
	DOWN KKIMI		230.33.	23770.44	1450.	1430.	0.00	48771.78
AY								
	4OFPKKWH	492	216930.	15597.26	1014.	1014.	0.00	
	EONPKDMHTG	252	332124.	0.00	1907.	1907.	16346.86	
	BONPKKWH	252	332124.	26603.10	1907.	1907.	0.00	58547.22
UN								
	40PPKKWH	456	263536.	18948.23	1047.	1047.	0.00	
	BONPKDMCL	264	405134.	0.00	1988.	1988.	18829.02	
	EONPKKWH	264	405134.	32451.24	1988.	1988.	0.00	
UL								70228.48
	4OPPKKWH	504	302262.	21732.64	1032.	1032.	0.00	
	BONPKDMCL	240	374111.	0.00	1983.	1983.	18782.13	
	BONPKKWH	240	374111.	29966.33	1983.	1983.	0.00	
UG								70481.09
.00	4OPPKKWH	468	275198.	19786.74	1054.	1054.	0.00	
	BONPROMCL	276	430204.	0.00	1986.	1986.	18807.44	
	BONPKKWH	276	430204.	34459.33	1986.	1986.	0.00	
								73053.52
BP	4OPPKKWH	468	255721.	18386.33	1025.	1025.	0.00	
	BONPKDMCL	252	370874.	0.00	1915.	1915.	18133.75	
	BONPKKWH	252	370874.	29707.04	1915.	1915.	0.00	
				23.07.04	2,23.	2,23.	0.00	66227.12
CT	40.00000000	504	******					
	40PPKKWH	504	213724.	15366.73	900.	900.	0.00	
	EONPKDMHTG EONPKKWH	240 240	304963. 304963.	0.00	1801.	1801.	15430.54	
	SOMPRANTA	240	304903.	24427.50	1801.	1801.	0.00	55224.77

ENTECH ENGINEBRING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 10:22:31 EDL RUN 1 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

								CONTINUED
MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV								
	40FPKKWH	480	182353.	13111.20	787.	787.	0.00	
	BONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	
	BONPKKWH	240	283017.	22669.67	1459.	1459.	0.00	
								48288.68
DEC								
	40FPKKWH	492	192529.	13842.83	787.	787.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	298773.	23931.73	1462.	1462.	0.00	
								50302.42
TOTAL			6616680.	508461.22			181363.42	689824.69



Consulting Engineers

Principals
Daniel J. Castellani, PE
Thomas M. McManon, PE
William M. McManon or , PE



September 27, 1995

Entech #4130.05

Director of Public Works ATTN: SELF-PW-E (Mr. Dooney) Building 167 Riverside Avenue Fort Monmouth, New Jersey 07703-5108

Re: Indefinite Delivery-Type Contract No. DACA01-94-D-0037 Limited Energy Study, Myer Center, Ft. Monmouth, N.J.

Dear Mr. Dooney:

As requested at our meeting on August 8, 1995, we are furnishing additional scope definitions for the Myer Center energy study. During our discussions you requested that the energy study not address just the steam system but also other major HVAC systems in the building. This concern was further substantiated by the project currently out for bidding to provide new hot water boilers to feed the two-pipe fan coil system. This project greatly reduces the need for steam to just a few users. In summary, Ft. Monmouth is already taking steps to replace the major steam load in Building 2700 and thus leaves limited options for additional energy savings. Future energy and conservation may, therefore, be more readily achievable via modifications/upgrades to other major HVAC systems.

In order to better accommodate your needs, we offer the following preliminary list of Energy Conservation Opportunities (ECOs) which could be considered and of which include other major HVAC systems serving Building 2700. We believe these ECOs would not only met your request, but also be possible within the current authorized contract fee. Please review the following list and forward your comments as soon as possible so that Entech may proceed without any schedule modifications.



P Q. Box 32

Reading

ECO List

- Steam to Hot Water Heating Conversion
- Decentralize Steam Distribution System
- Direct Fired Domestic Hot Water Generator
- Decentralize Domestic Hot Water Distribution System
- Convert Steam Source HVAC Equipment to Hot Water

Office 610.373.5667

Pennsylvania 19603

4 South Fourth Street

Director of Public Works

ATTN: SELF-PW-E (Mr. Dooney)

September 22, 1995

Page -2-

- Occupied/Unoccupied Cycle Controls for HVAC Systems
- Cooling Tower Optimization
- Thermal Storage for Chilled Water System
- Efficient Chillers
- Convert Chilled Water System to Variable Flow Primary/Secondary System
- Automated Outside Air Reset Control for Hot Water Distribution Temperature Control
- Replace Domestic Hot Water Recirculation Pumps

I have discussed this change with Mr. James Kendall in Norfolk and he agrees with the revision to the project scope. A copy of our telephone conversation is attached for your records.

Should you have any questions or wish to discuss the preceding information, please do not hesitate to call. In addition, please find, attached, a project schedule for review and comment.

Sincerely,

Edward L. Caulkins, P.E.

Project Manager

cc:

Mr. James Kendall

Mr. Charles Konig

Mr. Battaglia

Mr. Kapur

Mr. William McMahon

G:PROJECTS:4130.05/WP/DOONEY.L01

ENTECH ENGINEERING INC. TELEPHONE AND CONFERENCE MEMORANDUM

DATE: 9-20-95

BY: Ed Caulkins PROJECT NO.: 4130.05

PERSON(S): Jim Kendall TELEPHONE NO: 804-441-7403

REPRESENTING: Norfolk District PHONE CODE: 036

SUBJECT: Scope of Study

NOTES: Discussed Kevin Dooney's request that Entech not focus totally on steam plant but cover other HVAC systems as well. The steam issue should not be removed from the study but should be reduced in effort & comprehensiveness to accommodate other HVAC systems which might offer significant energy savings.

Jim stated that as long as steam is not totally eliminated from the project scope, the revised focus is not a problem. There is no modification to the contract scope document required. Entech should forward a copy of the letter re: this change to Jim and Mr. Battaglia. Acceptance of this letter by Kevin Dooney is justification for modifications.

9661	Mar Apr			•	•	• .		•		•											•	•		•	•	•		•			 			
1996	Jan Feb			•				•			•	•		•						XXXXXXX	XXXXXXXX				•					•		mouth	eray Grudy	ctyy aruny
	Nov Dec		•		∵⊠	•															•	•	•	•				•				Fort Monmouth	Limited Energy Study	דוווווו רעכ דווע
1995	Sep Oct				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	₩				⊠	•						⊠			•	•	• •		•	•	•	•			•	•			
1995	Jul Aug					•	•	•	• ()	•	•	•	•	•	•	•	•	•	•	• .	• .			. ()	•	• .	•	•	•	•	•			
	e Jun	-		2									5																			XXXXXXX		
	Start Date	6/14/95	7/21/95	8/ 8/95	8/ 8/95	9/18/95	9/18/95	10/ 2/95	10/ 9/95	9/11/95	11/ 6/95	10/23/95	9/ 5/95	9/ 4/95	10/ 2/95	2/ 5/96	9/11/95	9/11/95	9/11/95	1/ 1/96	1/ 1/96	1/ 5/96	1/15/96	1/ 5/96	12/14/95	12/14/95	12/21/95	2/14/96	2/15/96	3/ 1/96	4/ 1/96		Milestone [
	Duration	0.00 Weeks	0.00 Days	4.00 Weeks	12.00 Weeks	2.00 Weeks	2.00 Weeks	2.00 Weeks	2.00 Weeks	1.00 Week	2.00 Weeks	1.00 Week	1.00 Week	1.20 Week	10.00 Heeks	1.00 Week	1.00 Week	2.00 Weeks	2.00 Weeks	5.00 Weeks	5.00 Weeks	2.00 Weeks	3.00 Heeks	2.00 Weeks	0.00 Weeks	1.00 Week	0.00 Weeks	0.00 Weeks	3.00 Weeks	3.00 Weeks	0.00 Weeks	_	Mile	
	Г	0.	Ing	<u>B</u>	ion	leat	imula	on Sy	stem L	Analys	on Anal	Supply/	Utility Rate An	\$,00	Preliminary ECO	Executive Summa	plogy	Pacility Descri	Use	ECO's Recommend	ECO's Not Recom	Life Cycle Cost	ssion	Attachments	Interim Submitt	Interim Review	Interim Present	Prefinal Submit	Pt. Monmouth Co	Incorporate Rev	Final Submissio	al 🗪		
		Notice to Proce	Kickoff Weeting	Data Gathering	Site Inspection	Heat Gain/Heat	Building Simula	Distribution Sy	Boiler System L	Fuel Use Analys	Regression Anal	Balance Supply/	Utility	Draft ECO's	Prelimi	Execut	Methodology	Pacili	Energy Use	\$,003	S,003	Life	Discussion	Attac	Interi	Interi	Interi	Prefin	Pt. Ho	Incorp	Pinal	Noncritical	Slack	

Consulting Engineers

Principals: Daniel J. Castellani, PE Thomas M. McManon, PE William M. McManon Jr., PE

ENTECH

FAX TRANSMITTAL

	DATE: 10. 2.95 TIME:
	ENTECH PROJECT #/NAME:
	PLEASE DELIVER THE FOLLOWING PAGE(S) TO:
	NAME: MK KEVIH DOONEY
	FIRM: FT MOHMOUTH
	FAX #: 908 - 532 - 2367 PHONE CODE: 036
	FROM: ED CALLKIES
	REMARKS: Kauh,
	PLEASE CALL ME APPENYOU
	HAVE A CHANCE TO REVIEW
	Thanks
	Original Sent Via:
	U.S. Mail
À	☐ Overnight Delivery Service
4 South Fourth Street	FAX Only, Originals Not Sent
P O. Sox 32 Reading	WE ARE TRANSMITTING PAGE(S) (INCLUDING COVER PAGE)
Pennsylvania 19603 Olffice 610.373.5667	If you do not receive all the pages, please call (610) 373-6667.

Consuiting Engineers

Principals: Daniel J. Castellani, PE Thomas M. McMahon, PE William M. McMahon Jr., PE

ENTECH

August 25, 1995

Entech #4130.05

Mr. Jim Kendall Norfolk District Attn: CENAO-EN-DE, Jim Kendall 803 Front Street Norfolk, VA 23510

Re: Ft. Monmouth - DACA01-94-D-0037

Dear Jim:

I received a fax from Mr. Kapur of HQ, Forces Command, indicating that Ft. Monmouth is not a Forscom Installation. This fax was in the form of the Entech Meeting Minutes cover sheet with the previous note. I interpret this to mean that Mr. Kapur has no responsibility regarding this project and does not require copies of further communications. The contract documents list Mr. Kapur, therefore I am forwarding this to you for your input. Should we remove Mr. Kapur from the correspondence list or add someone else in his place? Please let me know what you would like us to do.

Caulha

Sincerely.

Edward L. Caulkins, P.E.

Project Manager

cc: Bill McMahon - Entech



4 South Fourth Street P.O. Box 32 Reading Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

CENAO-EN-DE April 1995

GENERAL SCOPE OF WORK FOR A LIMITED ENERGY STUDY

Performed as part of the ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP)

SCOPE OF WORK FOR A LIMITED ENERGY STUDY

TABLE OF CONTENTS

- 1. BRIEF DESCRIPTION OF WORK
- 2. GENERAL
- 3. PROJECT MANAGEMENT
- 4. SERVICES AND MATERIALS
- 5. PROJECT DOCUMENTATION
 - 5.1 ECIP Projects
 - 5.2 Non-ECIP Projects
 - 5.3 Nonfeasible ECOs
- 6. DETAILED SCOPE OF WORK
- 7. WORK TO BE ACCOMPLISHED
 - 7.1 Review Previous Studies
 - 7.2 Perform a Limited Site Survey7.3 Reevaluate Selected Projects

 - 7.4 Evaluate Selected ECOs
 - 7.5 Combine ECOs into Recommended Projects
 - 7.6 Submittals, Presentations and Reviews

ANNEXES

- A DETAILED SCOPE OF WORK
- **B-EXECUTIVE SUMMARY GUIDELINE**
- C REQUIRED DD FORM 1391 DATA

- 1. BRIEF DESCRIPTION OF WORK: The Architect-Engineer (AE) shall:
- 1.1 Review the previously completed Energy Engineering Analysis Program (EEAP) study which applies to the specific building, system, or energy conservation opportunity (ECO) covered by this study.
- 1.2 Perform a limited site survey of specific buildings or areas to collect all data required to evaluate the specific ECOs included in this study.
- 1.3 Reevaluate the specific project or ECO from the previous study to determine its economic feasibility based on revised criteria, current site conditions and technical applicability.
- 1.4 Evaluate specific ECOs to determine their energy savings potential and economic feasibility.
 - 1.5 Provide project documentation for recommended ECOs as detailed herein.
- 1.6 Prepare a comprehensive report to document all work performed, the results and all recommendations.

2. GENERAL

- 2.1 This study is limited to the evaluation of the specific buildings, systems, or ECOs listed in Annex A, DETAILED SCOPE OF WORK.
- 2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this study.
- 2.3 For the buildings, systems or ECOs listed in Annex A, all methods of energy conservation which are reasonable and practical shall be considered, including improvements of operational methods and procedures as well as the physical facilities. All energy conservation opportunities which produce energy or dollar savings shall be documented in this report. Any energy conservation opportunity considered not feasible shall also be documented in the report with reasons for elimination.
 - 2.4 The study shall consider the use of all energy sources applicable to each building, system, or ECO.
- 2.5 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 (including current updates) establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The program, Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.
- 2.6 Computer modeling will be used to determine the energy savings of ECOs which would replace or significantly change an existing heating, ventilating, and air conditioning (HVAC) system. The requirement to use computer modeling applies only to heated and air conditioned or air conditioned only buildings which exceed 8,000 square feet or heated-only buildings in excess of 20,000 square feet. Modeling will be done using a professionally recognized and proven computer program or programs that integrate architectural features with air conditioning, heating, lighting and other energy producing or consuming systems. These programs will be capable of simulating the features, systems, and thermal loads of the building under study. The program

will use established weather data files and may perform calculations on a true hour-by-hour basis or may condense the weather files and the number of calculations into several "typical" days per month. The Detailed Scope of Work, Annex A, will list programs that are acceptable to the Contracting Officer. If the AE desires to use a different program, it must be submitted for approval with a sample run, an explanation of all input and output data, and a summary of program methodology and energy evaluation capabilities.

- 2.7 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP or FEMP funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.
- 2.7.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).
 - 2.7.2 All feasible non-ECIP projects shall be ranked in order of highest to lowest SIR.
- 2.7.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Public Works will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.
- 2.8 Metric Reporting Requirements: In this study, the analyses of the ECOs may be performed using English or Metric units as long as they are consistent throughout the report. The final results of energy savings for individual recommended projects and for the overall study will be reported in units of MegaBTU per year and in MegaWatts per year. Paragraph 7.6.2 details requirements for the contents of the final submittal.

3. PROJECT MANAGEMENT

- 3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work required under this contract. Upon award of this contract, the individual shall be immediately designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative.
- 3.2 <u>Installation Assistance</u>. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative.
- 3.3 <u>Public Disclosures</u>. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer.
- 3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the

Contracting Officer. These meetings, if necessary, will be in addition to the presentation and review conferences.

3.5 <u>Site Visits, Inspections, and Investigations</u>. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work.

3.6 Records

- 3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.
- 3.6.2 The AE shall provide a record of requests for and/or receipt of Government furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number. if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material.
- 3.7 <u>Interviews</u>. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance.
- 3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:
 - a. Schedules.
 - b. Names of energy analysts who will be conducting the site survey.
 - c. Proposed working hours.
 - d. Support requirements from the Director of Public Works.
- 3.7.2 Exit. The exit interview shall be held when the field work is essentially complete; it shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.
- 4. <u>SERVICES AND MATERIALS</u>. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision, and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.
- 5. <u>PROJECT DOCUMENTATION</u>. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such:

- 5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000. a Savings to Investment Ratio (SIR) greater than 1.25 and a simple payback period of less than ten years. The overall project and each discrete part of the project shall have an SIR greater than 1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.7.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391 and life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs.
- 5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate, but which have an SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.7.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA (energy savings calculations and cost estimate), and the simple payback period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for one of the following categories:
- a. Federal Energy Management Program (FEMP) Projects. A FEMP (or O&M Energy) project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, i.e., SIR ≥ 1.25, and simple payback period of less than ten years. Projects with a construction cost estimate up to \$1,000,000 shall be documented as outlined in par 5.2 above; projects over \$1,000,000 shall be documented on 1391s. In the FEMP program, a system may be defined as "failed or failing" if it is inefficient or technically obsolete. However, if this strategy is used to justify a proposed project, the equipment to be replaced must have been in use for at least three years.
- b. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.
- 5.3 <u>Nonfeasible ECOs</u>. All ECOs which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.
- 6. DETAILED SCOPE OF WORK. The Detailed Scope of Work is contained in Annex A.

7. WORK TO BE ACCOMPLISHED.

- 7.1 <u>Review Previous Studies</u>. Review the previous EEAP study which applies to the specific building, system, or ECO covered by this study. This review should acquaint the AE with the work that has been performed previously. Much of the information the AE may need to develop the ECOs in this study may be contained in the previous study.
- 7.2 Perform a Limited Site Survey. The AE shall obtain all necessary data to evaluate the ECOs or projects by conducting a site survey. However, the AE is encouraged to use any data that may have been documented in a previous study. The AE shall document his site survey on forms developed for the survey, or on standard forms, and submit these completed forms as part of the report. All test and/or measurement equipment shall be properly calibrated prior to its use.

- 7.3 Reevaluate Selected Projects. The AE shall reevaluate the projects and ECOs listed in Annex A. These projects and ECOs were previously identified but have not been accomplished or have been only partially accomplished. If the project or ECO is acceptable as is, that is, there are no changes to the basic project or ECO, the energy savings shown in the previous project may be accepted as accurate but the energy cost and construction cost estimates shall be updated based on the most current data available. With the above information the project shall then be analyzed based on current ECIP criteria. If the project or ECO is basically acceptable but some of the buildings in the original project have been deleted or new buildings can be added, the necessary changes shall be made to the energy savings, the energy costs and construction costs shall be updated, and the revised project or ECO shall then be analyzed using current ECIP guidance. If the original project or ECO has had numerous changes made to it so that all of the numbers are suspected of being inaccurate, but the project or ECO is still considered feasible, the AE shall develop the project from the beginning and analyze it with the current ECIP guidance. These projects shall be separately listed in the report.
- 7.4 Evaluate Selected ECOs. The AE shall analyze the ECOs listed in Annex A. These ECOs shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRs) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the ECO were figured. Calculations shall be an orderly step-by-step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches shall also be included. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data.
- 7.5 Combine ECOs Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph [7.6.1], the AE will be advised of the DPW's preferred packaging of recommended ECOs into projects for implementation. Some projects may be a combination of several ECOs, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOs within a project and the effects of one project upon another. The results of this effort will be reported in the Final Submittal per par [7.6.2].
- 7.6 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed. Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the persons primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review conference will be discussed and resolved or action items assigned. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a resubmittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.
- 7.6.1 Interim Submittal. An interim report shall be submitted for review after the field survey has been completed and an analysis has been performed on all of the ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study.

Calculations showing energy and dollar savings. SIR, and simple payback period of all the ECOs shall be included. The results of the ECO analyses shall be summarized by lists as follows:

- a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.
- b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or area as appropriate for the study.

The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this audit shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be retained. They shall be bound in a standard three-ring binder which will allow repeated disassembly and reassembly of the material contained within.

- 7.6.2 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph [7.6.1] shall also be included for continuity. The final report and all appendices shall be bound in standard three-ring binders which will allow repeated disassembly and reassembly. The final report shall be arranged to include:
- a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See Annex B for minimum requirements).
- b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.
 - c. Documentation for the recommended projects (includes LCCA Summary Sheets).
 - d. Appendices to include as a minimum:
 - 1) Energy cost development and backup data
 - 2) Detailed calculations
 - 3) Cost estimates
 - 4) Computer printouts (where applicable)
 - 5) Scope of Work

ANNEX A

DETAILED SCOPE OF WORK

1. LOCATION

A. General description. The Architect Engineer (AE) shall furnish all services, materials, supplies, labor, equipment, investigations, studies, and travel as required in connection with the feasibility study for the below identified project in accordance with the contract and all furnished instructions:

INSTALLATION

DESCRIPTION

Fort Monmouth, NJ

Limited Energy Study (Bldg 2700)

- 2. AUTHORIZATION (Not Required)
- 3. STUDY INSTRUCTIONS

If the Design Manuals, Guide Specifications, and/or Project Engineering Instructions do not cover a specific condition in question, the AE shall contact the Contracting Officer before proceeding. If there is a conflict in Engineering Instructions or other reference data, such questions or conflicts should be brought to the attention of the Contracting Officer before proceeding.

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4. INSTALLATION REPRESENTATIVE

The installation representative for this contract will be Mr. Kevin Dooney, Director of Public Works.

5. COMPLETION SCHEDULE

The following schedule shall be used as a guide in approving payments on this contract. The interim report for shall be due not later than 180 days after Notice to Proceed. The prefinal report shall be due not later than 45 days after the interim report review conference. The final report shall be due not later than 30 days after the prefinal review conference.

6. METHOD OF PAYMENT

A. Title I. The AE shall prepare and submit to the US Army Engineer District, Norfolk, partial payment estimates in accordance with the attachment entitled "Instructions for Completion of ENG Form 93". Payment under this contract, for which property or services are provided in a series of partial executions or deliveries, will be made within 30 days after receipt of an invoice which has been properly executed by the AE.

- B. Additional Conferences. Payment for furnishing the services of technically qualified representatives to attend additional conferences, when so requested in writing by the Contracting Officer, will be made at a rate per hour for the discipline involved plus travel expenses computed in accordance with Government Joint Travel Regulations in effect at the time travel is performed and actual cost of transportation.
- 7. The simulation programs acceptable for use in this study are listed below. Any substitutes must be submitted and approved as outlined in the basic scope of work.
 - A. Building Loads and System Thermodynamics (BLAST)
 - B. DOE 2.1B
 - C. Carrier E20 of Hourly Analysis Program (HAP)
 - D. Trane Air-Conditioning Economics (TRACE)
 - E. Beacon
- 8. LIFE CYCLE COSTING IN DESIGN (LCCID)

A computer program titled Life Cycle Costing in Design (LCCID) is available from the BLAST Support Office in Urbana. Illinois for a nominal fee. This computer program can be used for performing the economical calculations for ECIP and non-ECIP ECOS. The AE is encouraged to obtain and use this computer program. The BLAST Supporting Office can be contacted at 144 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is (217) 333-3977 or (800) 842-5278.

9. FACILITY SURVEY

The Architect-Engineer (AE) shall conduct a survey of the buildings and building systems listed in accordance with HNDS86-188-ED-ME and as described herein. Each building/system shall be observed while operating. The survey shall include and document the following items:

- A. The central steam plant including all boilers, auxiliaries, fuel systems, stack(s), internal steam piping, and physical structures.
- B. The steam distribution system from the central steam plant to the outer wall of all buildings served by steam. The system will include piping, insulation, valves, controls, traps, vents, and associated structures. Special interest shall be given to equipment life, condition, and capacity.
- C. Condensate return system similar to the steam system.
- D. The chilled water system as it relates to reheating.

due to overheating

- E. Facilities which consume steam including peak steam demand, overall yearly use, and types of equipment served. This shall be limited to the overall system energy use and not to any particular individual user.
- F. Those areas that may be needed for supplemental or auxiliary steam plants.
- G. The fuel supply as it relates to the boiler plant operations.
- H. The environmental equipment related to the boiler plant operations.
- 10. AUTOMATED REVIEW MANAGEMENT SYSTEM (ARMS) Not Required
- 11. GOVERNMENT-FURNISHED DATA
- A. AR 415-15 Military Construction, Army (MCA) Program Development.
- B. AR 415-20 Project Development and Design Approval.
- C. TM 5-800-3 Project Development Brochure.
- D. Engineering Instructions (as applicable).
- E. Previous studies related to application of Steam at this site (where applicable).

12. SUBMITTAL REQUIREMENTS

COPIES REQUIRED

·.	(Correspondence): Interim: Final and Prefinal Review	Executive Summary,
ORGANIZATION		Only
Norfolk District Attn: CENAO-EN-DE, Jim Kendall 803 Front Street Norfolk, VA 23510	5 I	
Headquarters, Forces Command Attn: FCEN-RDF, Mr. Naresh Kapu Energy Office, Building 200 Ft. McPherson, GA 30330-6000	l ur	
U.S. Army Engineer District, Mobil Attn: CESAM-EN-DM (Mr. Battag Post Office Box 2288 109 St. Joseph Street Mobile, AL 36602		
Commander USAED, North Atlantic ATTN: CENAD-EN-MM (Mr Won 90 Church Street New York, NY 10007	g)	1
Commander US Army Corps of Engineers ATTN: CEMP-ET (Mr Gentil) 20 Massachusetts Avenue NW Washington, DC, 20314 1000.		1 (Final Only)
Commander US Army Logistics Evaluation Ages ATTN: LOEA-PL (Mr Keath) New Cumberland Army Depot New Cumberland, PA, 17070 5007		1 (Final Only)
Director of Public Works ATTN: SELFM-PW-E (Mr Dooney Bldg 167 (Riverside Ave.) Fort Monmouth, NJ, 07703 5108	2	2

13. ANALYSIS OF SYSTEMS

The Architect Engineer (AE) will utilize standard methods of engineering calculations to understand current energy consumption in such detail as to permit identification of further improvement options.

<u>HEAT LOSS CALCULATIONS</u> A calculation of each facility's theoretical energy use due to building heat loss and heat gain will be made using energy models derived from ASHRAE standards.

STEAM DISTRIBUTION LOSSES Based upon the known arrangement and condition of the steam lines, a calculation shall be made showing the average rate of distribution losses and the overall costs associated with normal operation.

<u>BOILER SYSTEM LOSSES</u> Together with the boiler efficiency tests provide a calculation that will show total boiler system losses including stack losses, skin losses, partial load losses, blowdown losses and others that may apply.

<u>CONDENSATE SYSTEM LOSSES</u> Review the condensate return records and provide a calculation showing the costs of condensate not returned. Provide areas of loss, estimated loss quantities and costs

<u>REGRESSION ANALYSIS</u> Provide a calculation using historical energy consumption, weather data, occupancy, and other variables for potential mathematical correlation to support other energy calculations.

BALANCE OF ENERGY SUPPLY WITH USERS/LOSSES Provide a calculation by combining all calculations made in this study to match actual steam production with calculated energy use.

<u>UTILITY RATE ANALYSIS</u> Provide a separate calculation for each type of energy conservedgas, oil, and electric. The incremental cost of fuel shall be used for all energy savings options.

<u>CHECK REGULATORY REQUIREMENTS</u> Provide a check of all regulatory bodies affecting emissions to the air or water discharges. Provide any recommendations made in compliance with such regulatory agencies.

14. METHOD

The Architect Engineer (AE) shall collect information on the existing boiler plant and steam system operations in order to have a reasonable understanding of operations, cost, energy use, problems, limitations, and future need. This shall be accomplished in the following steps.

<u>DATA GATHERING</u> From the start of the study the AE shall collect available data that will assist in energy use evaluations and recommendations. A partial list of data that shall be sought is as follows:

- Energy bills and summaries /
- Schedules
- Steam line drawings
- Floor plans or building data /
- Site plans
- Maintenance records
- Steam load profiles
- Boiler plant operator logs /
- Temperature histories
- Energy management system profile

HONE

<u>SITE VISITS, INSPECTIONS</u> A team of Engineers shall visit the facility. The inspection will cover areas covered in the study. Operators shall interviewed for operation of individual areas and systems.

Nameplate data will be collected as well as observations of arrangements, physical condition and effectiveness. The following measurements shall be collected:

- Pressure levels -
- Temperatures -
- Electrical loads -
- Steam flow rates -
- Schedules __
- Dimensions -

15. ENERGY CONSERVATION OPPORTUNITY INVESTIGATIONS

The AE shall investigate all reasonable options of saving energy and energy-related costs in the operation of the steam production and distribution systems. The approach used to identify each option is briefly described below.

Existing Conditions. This section describes the nature of the existing operating system, its energy use, costs, advantages and disadvantages. Data is usually transferred to this section from the calculations.

<u>Proposed Idea.</u> This section describes improvement ideas that are different from the existing conditions. They may describe a capital projects, modifications, or O&M procedures. The resulting improvements are described, energy costs, quantities and arrangements are briefly noted. Sufficient conceptual studies will be executed to determine feasibility, generate anticipated operational data and estimating values.

Construction Cost Estimate. A feasibility cost estimate in the format prescribed will be performed. The estimate breakdown will be included in the report showing known quantities and costs. Allowances for indirect costs and contingencies are included.

Annual Savings. The report will show the annual savings in energy, quantities, demand, costs, and BTU's. As the report is written, these savings are merely the difference between existing and proposed.

<u>Discussion</u>. This section of the report describes a number of relevant factors including payback period, impact on labor or non-energy costs, O&M concerns, appearances, comfort, life extension, etc. The intent of this section is to address normal impacts or uncertainties of various improvement ideas.

16. REPORT PREPARATION PHASE

The AE will prepare a Energy Analysis report which will fully document the steps previously described. The report will be prepared as follows.

Executive Summary - Section 1. The outline of the executive section is shown on Appendix B.

Methodology - Section 2. This part of the report describes the approach, sequence, assumptions, calculations methods, computer programs, sample outputs, etc. that were used for the study.

<u>Facility Description - Section 3.</u> The report will briefly discuss the buildings and systems covered by the study. It will show floor plans, layout flow diagrams, facility age and condition, major equipment characteristics by system, hours of operation, and concerns expressed by occupants and managers.

Energy Use and Costs - Section 4. The report will describe individual and combined energy and steam consumption for the past two years. The report will describe rate structures, incremental cost calculations, trends, and analysis of use by source. This section critically establishes baseline use of energy for later improvement possibilities.

ECOs Recommended - Section 5. This section describes in detail each of the Energy Conservation Opportunities (ECOs) that are recommended for adoption and funding. The approach to each ECO write-up has been discussed in the preceding section.

ECOs Not Recommended - Section 6. The report will also show ECOs that were investigated but not recommended for adoption due to economics, conflicts, with other ECOs or concerns of operations.

<u>Discussion - Section 7</u>. This part of the report will cover interesting findings of the study not related to other sections of the report. It may include recommendations for non-energy problems, further studies. O&M procedures, training, etc.

Attachments. As part of the report, there will be enclosures for photos, backup calculations, referenced materials such as rate tariffs, codes, etc.

Applications and Funding Requests. As part of this study, applications for project funding will be made in accordance with Section 5, Project Documentation and directions from local authorized persons. The exact level of funding and funding program (expected to be ECIP), will be at the direction of the facility manager.

<u>Suggested Implementation Schedules.</u> The report will also contain a suggested timetable for implementing various projects or programs. This recommendation will be made in consultation with various facility managers.

Operation and Maintenance Instructions. Where appropriate, the study will recommend the formation of procedures or changes to processes that relate to improved energy usage and costs through Operation and Maintenance.

<u>Meetings</u>. At the start of the project, a series of progress meetings will be summarized in minutes prepared and distributed by the AE. There will be a special meeting at the project start and final report phase.

<u>Correspondence.</u> Keeping Fort Monmouth informed of the progress of the conduct of this study shall be a priority. The information shall be transferred in a number of ways.

Progress reports shall be prepared on a monthly basis to highlight the significant events of the prior month. This shall be especially true for actions completed, problems discovered, schedule changes and ECO developments. The progress reports will accompany monthly billings and will form the basis for progress meetings.

Special letters shall be sent for matters of major importance or where schedule delay is not tolerable. This may be true of O&M findings that offer immediate cost savings.

Telephone calls, in-person visits, copies of correspondence and other communications shall be used to keep the post informed of energy analysis underway.

ANNEX B

EXECUTIVE SUMMARY GUIDELINE

- 1. Introduction.
- 2. Building Data (types, number of similar buildings, sizes, etc.)
- 3. Present Energy Consumption of Buildings or Systems Studied.
 - Total Annual Energy Used.
 - Source Energy Consumption.

Electricity - KWH, Dollars, BTU
Fuel Oil - GALS, Dollars, BTU, MWH
Natural Gas - THERMS, Dollars, BTU, MWH
Propane - GALS, Dollars, BTU, MWH
Other - QTY, Dollars, BTU, MWH

- 4. Reevaluated Projects Results.
- 5. Energy Conservation Analysis.
 - ECOs Investigated.
 - ♦ ECOs Recommended.
 - ♦ ECOs Rejected. (Provide economics or reasons)
 - ♦ ECIP Projects Developed. (Provide list)*
 - ♦ Non-ECIP Projects Developed. (Provide list)*
 - Operational or Policy Change Recommendations.
- * Include the following data from the life cycle cost analysis summary sheet: the cost (construction plus SIOH), the annual energy savings (type and amount), the annual dollar savings, the SIR, the simple payback period and the analysis date.
- 6. Energy and Cost Savings.
 - ♦ Total Potential Energy and Cost Savings.
 - ◆ Percentage of Energy Conserved.
- ♦ Energy Use and Cost Before and After the Energy Conservation Opportunities are Implemented.

ANNEX C

REOUIRED DD FORM 1391 DATA

To facilitate ECIP project approval, the following supplemental data shall be provided:

- a. In title block clearly identify projects as "ECIP."
- b. Complete description of each item of work to be accomplished including quantity, square footage, etc.
- c. A comprehensive list of buildings, zones, or areas including building numbers, square foot floor, etc.
 - (11) Latest MCP Index, essential for projecting costs for project documentation.
- (12) The following items are important and should be provided to the AE to the extent to which they are available:
 - (a) As-built drawings of applicable buildings, equipment, or systems
 - (b) Handbooks or SOPs relating to the operation of applicable equipment or systems.
 - (c) Applicable records of energy or fuel usage.
 - (d) Copies of bills for electrical assumptions before and after improvements.
- (4) Include source of expertise and demonstrate savings claimed. Identify any special or critical environmental conditions such as pressure relationships, exhaust or outside air quantities, temperatures, humidity, etc.
- e. Claims for boiler efficiency improvements must identify data to support present properly adjusted boiler operation and future expected efficiency. If full replacement of boilers is indicated, explain rejection of alternatives such as replace burners, nonfunctioning controls, etc. Assessment of the complete existing installation is required to make accurate determinations of required retrofit actions.
- f. Lighting retrofit projects must identify number and type of fixtures, and wattage of each fixture being deleted and installed. New lighting shall be only of the level to meet current criteria. Lamp changes in existing fixtures is not considered an ECIP type project.
- g. An ECIP life cycle cost analysis summary sheet as shown in the ECIP Guidance shall be provided for the complete project and for each discrete part included in the project. The SIR is applicable to all segments of the project. Supporting documentation consisting of basic engineering and economic calculations showing how savings were determined shall be included.
- h. The DD Form 1391 face sheet shall include, for the complete project, the annual dollar and MBTU savings, SIR, simple amortization period and a statement attesting that all buildings and retrofit actions will be in active use throughout the amortization period.
- i. The calendar year in which the cost was calculated shall be clearly shown on the DD Form 1391.

- j. For each temporary building included in a project, separate documentation is required showing (1) a minimum 10-year continuing need, based on the installation's annual real property utilization survey, for active building retention after retrofit, (2) the specific retrofit action applicable and (3) an economic analysis supporting the specific retrofit.
- k. NAF funded facilities will not be included in an ECIP project without an accompanying statement certifying that utility costs are not reimbursable.
- l. Any requirements required by ECIP guidance dated 10 Jan 1994 and any revisions thereto. Note that nonescalated costs/savings are to be used in the economic analyses.
- m. The five digit category number for all ECIP projects except for Family Housing is 80000. The category code number for Family Housing projects is 71100.

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Gentlemen:

The delivery order for the Limited Energy Study, Myer Center Steam System, Fort Monmouth, NJ, was signed today. A copy of the signed order, Form 1155, is attached. The complete package will follow by mail.

Now the real work starts. Best wishes for a high-quality, energy-saving, on-schedule study! Don't forget to send us copies of each submittal.

Good luck,

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INTERIM REVIEW COMMENTS

EEAP LIMITED ENERGY STUDY

at

MYER CENTER Ft. Monmouth, New Jersey

prepared by

ENTECH ENGINEERING, INC. 4 South Fourth Street Reading, Pennsylvania 19603 610-373-6667 Entech #4130.05

May 17, 1996

Interim Review Comments and Responses

The following addresses the review comments (CESAM-EN-DM Comments - Battaglia) for the EEAP Limited Energy dy, Myer Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

	Comment	Response	
1.	General: The AE has done a very good job of collecting and presenting data on the mechanical system for this complicated building.	1. General: Thank you for your positive commen We appreciate the time and effort put forth in reviewing the report.	
2.	Page 2-5: Correct description for kWh.	2. Page 2-5: Description in abbreviations table fo kWh was corrected from kilowatts per hour to kilowatt hour.	
3.	Page 2-20, Par 2: Twenty years was entered as common criteria for economic life in the LCCAs. This value can vary depending on the type of system being analyzed. For a complete list of economic lives, see the ECIP Guidance.	3. Page 2-20, Par 2: We are aware of the list for economic life in LCCAs. We will incorporate appropriately in individual LCCA's.	
4.	Page 3-9: Correct typos in first and second paragraphs.	4. Page 3-9: A couple of typographical errors were corrected in paragraphs 1 and 2.	
5.	Page 3-7 & 3-9: With regard to the new hot water boilers for Building 2706; Please clarify if the base case energy usage and the analyses of the ECOs will assume new boilers in operation or not in operation.	5. Page 3-7 & 3-9: Replacing steam heating with new hot water boilers in the middle of an EEA study complicates the analysis of the past versu the future. With this study, the existing loads on the MCA water will be separated in the boiler plant related ECO analysis. The new boilers in Building 2706 will be assumed to be in operation supporting the MCA demands. The main ECO for this EEAP Study will focus on the viability of operating a large boiler plant and steam distribution with relatively small loads excluding the MCA demands. The losse and/or overheating of spaces is suspected to be excessive, thereby warranting the investigation of decentralizing this system. Also, decentralization can be accomplished such that the full-time operation and monitoring of the existing system can be reduced to part-time monitoring with the new installations.	AP sus s e is int es be
6.	Page 3-12, Par 2: Delete unnecessary word after "water chiller".	6. Page 3-12, Par 2: The unnecessary word was removed.	

	Comment	Response
7.	Page 3-16, Table 3.4.1.1: Some of the items listed, for example, 9-11, have both cooling equipment compressor data and chilled water data listed. It can't be both. Please clarify.	7. Page 3-16, Table 3.4.1.1: When this list was originally comprised the compressor (hp) and (kW/ton) were omitted for the MCA chilled water loads which are handled by the Central Chiller Plant in Building 2706. Later, portioned values were then added for purposes of identifying the building/floor load totals and kW/ton averages. The MCA values in the "Est. Cooling Load/Compressor" columns shown were darkened to differentiate them from the others. Note: The connected (kW) loads in the electric model (Table 5.6.2.2) reflect that the values in the compressor columns of the listed MCA items in Table 3.4.1.1 and 2 were removed. Horsepower (hp) in the "Cooling Type (Est. Cond. Flow/hp)" columns relate only to the associated pumps and condenser fans excluding the MCA compressor loads.
8.	Page 3-16, Table 3.4.1.1: Cooling Equipment Field: Several items list plant chilled water at 55°F. Chilled water is usually supplied at 42-45°F. Should this apply to supply air temperature rather than chilled water temperature?	8. Page 3-16, Table 3.4.1.1: The 55 degree chilled water reference for the MCA two-pipe system is correct. The building maintains this temperature because they want to minimize condensation from the fan coil units. Since the perimeter fan coils and the MCA air handlers serving other areas are on the same piping system the supply temperature will remain in the 50-55°F range. Areas requiring lower humidity control, or more cooling in general have been supplemented with other cooling sources (ie: Item 118 in Table 5.4.1.2 and some "Liebert Units" in other areas). Comfort is probably borderline on design days using the 55 degree water.
9.	Page 3-18: Suggest the following additions to the tables on page 3-18: a. Table 3.1.4.3: add columns for Supply & Return Temperature. b. Table 3.1.4.4: add column for equipment served.	9. Page 3-18: a. Columns were added for the supply (55°F) and return (65°F) for the Building 2706 chillers in Table 3.4.1.3. b. The "Building Service" column in Table 3.4.1.4 was changed to "Equipment Served". CT-1 in Building 2706 supports the chiller plant only while the towers on the roof of Building 2700 support a variety of equipment.
10.	Page 3-25: Top line: Should the word "coils" be substituted for "unit heater"?	10. Page 3-25: The phrase "unit heaters" was replaced with "coils".

	Comment	Arradaga terdabi Artiga erafi dagi	Response
11.	Page 4-8: Regarding unavailability of fuel oil bills for months of June and November: Is it possible that they just did not order oil in June and November because they had enough in the tank for expected needs? Discuss in light of findings on pages 4-16 and 4-17.	11.	Page 4-8: The June and November oil bills were considered missing because no other information was available to consider otherwise. Records available to us did not confirm whether they existed or not. If the two months in question are considered to be months when oil was not ordered, then the estimated usage would be about 30% greater than the delivered totals. Fort Monmouth should be able to confirm whether fuel oil was ordered/delivered for June and November of 1994. We believe the report should remain as is unless further information is provided to the contrary.
12.	Page 4-14 & 4-15: Here two year's worth of steam production data are shown, with more steam produced in 93-94 then in 94-95; then they are averaged. Averaging is not always the best way to determine the typical year's performance. After all, that is the objective, to predict the typical year's performance. Wouldn't it be better to compare the steam production to the EZDOE output, which is based on a typical year's weather, and make adjustments on that basis? Please discuss.	12.	Page 4-14 & 4-15: Entech believes that the two year information for steam production is the best available source for identifying past steam production. The EZDOE output is a check of the heating and cooling loads for Building 2700 only. Cafeteria usage, domestic hot water, Buildings 2704, 2705 and 2715 usage and the system losses, which vary from month to month according to our findings, are beyond the EZDOE focus for this report.
13.	Page 4-16, par 4-6: Good work.	13.	Page 4-16: Thank you for your comment. This section has since been incorporated into Section 4-3.
14.	Page 5-3: Top of page, mentions heating for areas frequently open to outdoors. Suggest evaluating an ECO to serve such areas with direct-fired gas IR heaters.	14.	Page 5-3: While the use of direct fired gas IR heaters is an excellent idea, Fort Monmouth personnel have concluded that serving these areas with hot water during the heating season only will be acceptable.
15.	Page 5-3, Par 2, Sent 2: Change "supported a majority" to "supported by the majority".	15.	Page 5-3, Par 2: Paragraph corrected per comments.

	Comment		Response
16.	Sec 5, General: I am concerned about the use of multiple models to determine building loads and predict system performance. Except for the development of the U values and the analysis of the smaller buildings, the use of the Degree Day Method seems to have done more to muddy the waters than to verify the loads and performances. Some of the following comments will illustrate these concerns. It is suggested that the time spent on the Degree Day Method for Building 2700 might have been more profitably spend on refining the inputs for the EZDOE model	16.	Sec 5, General: We agree that the Degree Day Method has limitations for modeling of loads as compared to EZDOE. The Degree Day Method spreadsheet is a standard format which we have developed from previous work to help verify the validity of other calculations. It does not have the ability to account for internal heat generation loads which offset some building heat loss. It does, however, give us a way to compare the EZDOE results on a gross basis. All ECO evaluations will be based on the Steam Use Model, EZDOE and Electric Model. We have made modifications to the EZDOE simulations to improve the accuracy of the model since the issuance of the Interim Report.
17.	Page 5-7: Regarding reheat for the clean rooms: The reheat load is taken from Table 3.4.1.2, presumably from the column labeled "Estimated Heating load, Reheat". How was this load estimated; was it based on construction drawings, or nameplate data? Par 5.2.2 goes on to assume that a certain percent of this load is required year round. I am concerned that an assumption on top of an estimate may result in too much error. Wouldn't it be just as easy and more accurate to model each clean room?	17.	Further review of these units suggests that the air supply is about 50,000 cfm and the outdoor air quantity is about 20% or 10,000 cfm. Initial calculations were in error. Psychometric calculations will be included in the Appendix for ECO support data. Detailing each cleanroom would require a thorough design review of information that was not provided to us. We believe our evaluation is a good approximation of the conditions for these spaces. Also, as mentioned EZDOE was not set up in this study for detailed analyses of individual spaces. Block loading of the cleanrooms was consistent with the other system/area evaluations.
18.	Page 5-10, Par 5.2.4, Sent 1; Change "food" to "for".	18.	Page 5-10: Paragraph corrected per comment.
19.	Page 5-13, Par 5.2.6, Sent 1: Change "from" to "by".	19.	Page 5-13: Paragraph corrected per comment.
20.	Page 5-17: I tried to determine the peak winter day steam demand based on the quantities presented in Section 5.2, and I came up with approximately 10,400 lb/hr. This is considerably less than the 15,000 pph mentioned on page 5-14 or the 17,000 pph mentioned on page 5-20. That leads me to suggest that the methods used in Sec 5.2 result in underestimating the requirements.	20.	Page 5-17: The rate of 10,400 lb/hr in Section 5.2 pertains to the connected heating loads for Building 2700 and 2706, whereas the 15,000 lb/hr reference for pipe velocities relates to the plant's steam production peak which includes additional loads for the cafeteria and Building 2704, 2705, and 2718, and of course the system losses. The corrected 16,000 lb/hr reference on page 5-20 pertains to the record peak of the winter of 1994. Both of these values were determined by reviewing the boiler logs in Appendices.(Refer to response to Comment 22.)

	Comment		Response
21.	Page 5-20, Sent 2 below Table 5.3.2: Change "to" to "than".	21.	Page 5-20: Paragraph corrected per comment.
22.	Page 5-20: States that the peak steam demand in January 1994 was over 17,000 pph. Where is that data shown in this report? It is not reported in Table 4.5.1, Facilities Engineering Operating Log, nor in Table 4.5.2, Adjusted Steam Production.	22.	Page 5-20: It is apparent that some boiler logs were inadvertently mixed in with the fuel oil bills. The logs show that the hourly average "peak" for fuel use at 80% efficiency for both January 19 and 20, 1994 was close to 16,000 lb/hr. The values tabulated in Section 4 and modeled in Section 5.2 are average monthly figures. Actual hourly peaks are considered to be higher.
23.	Page 5-24 & 5-29: Color-coded floor plans are excellent.	23.	Page 5-24 & 5-29: Thank you for your comment.
24.	Page 5-30: Cooling Coil Temp shown as 55°F: Looks like this may refer to Leaving Air Temp rather than cooling medium temp. Please clarify. See Comment 8 above.	24.	Page 5-30: The information in question was changed to reflect that the Leaving Air Temperatures for the MCA system and the DX/Misc Cooling systems is 60°F and 55°F respectively.
25.	Page 5-32: Statement at top regarding occupancies: It would not seem too difficult to set up an occupancy schedule for the cafeteria. Data on the cafeteria was reported on Page 3-2.	25.	Page 32: Other than the general classification for the "cleanroom" spaces, the floors were subdivided in EZDOE by generalized system. This block loading method works well for estimating overall monthly or quarterly usage and peak totals. As with the case of the cafeteria and the auditorium the local system peaks are probably underestimated, but for the purposes of the analyses in this report, that detail was not considered important enough to differentiate in the block loads setup.
26.	Page 5-32: The note under Ventilation Rates stated that many areas do not received outdoor air. If people are working in these areas, their health demands that they receive ventilation, even if the cooling load is increased. The report should at the very least make a recommendation for introduction of outside air to meet the requirements of ASHRAE 62-1989.	26.	Page 5-32: As professional engineers, we would have been remiss to not mention the issue of minimum air (or lack of) conditions. Our intent was to comment on that subject in the comments and recommendations portion of Section 7. The introduction of additional outside air to the building will obviously do nothing to save energy. A paragraph was added to page 3-9 that also points out the fact that outside air is missing in many areas.

	Comment	jelo (parie nastoj	Response
27.	Page 5-32: Regarding infiltration: Please provide more background or give more explanation for the first statement regarding infiltration rates set for summer and winter.	27.	Page 5-32: The baseline infiltration rates were modified in EZDOE to 0.8 ach year round since the building is continuously exhausted. The 0.8 ach rate, suggests an ASHRAE definition for a loose to medium type construction for this building during winter conditions. Summer conditions at this rate are considered high but for this building the exhaust differential governs year round. This section will be modified to clarify this setting.
28.	Page 5-33: The very first sentence on this page could also use some additional background or explanation.	28.	Page 5-33: The following sentences were added to the infiltration portion of Section 5.4.3. "Many of the exhaust fans on the roof are designed with relatively low static pressure of 1"± water gauge". The negative conditions existing in the building would suggest that the added static pressure would reduce the capacities of these fans and in some cases the fans probably exhaust very little air.
29.	Page 5-33, Sent 2: Change "roof" to "rate".	29.	Page 5-33: Paragraph corrected per comment.
30.	Page 5-37, Table 5.4.4.1: Should include "Base Case" in the title.	30.	Page 5-37, Table 5.4.4.1: Corrected per comment.
1.	Page 5-48 & General: The word "usage" is creating some confusion. In some places usage figures are given units of kWh, and in other places units of kW. Please be consistent.	31.	Page 5-48: Usage should be kWh, Page 5-48 was corrected to reflect that consistency. The remainder of the report will be reviewed for consistency.
32.	Page 6-2, ECO list 1.a. Heating: Mentions "hot water heating system/season". Was this intentional, or is it a typo? Please clarify.	32.	Page 6-2: System/season is intentional with the way we are preliminarily presenting the ECO scope. Converting areas utilizing steam available year round to hot water available for a 7 month season maybe unacceptable to some. The use of system/season hopefully highlighted that aspect.
33.	Page 6-4, Sec 6.3: Normally all ECOs are supposed to be analyzed by the time the interim report is submitted. Apparently, a different arrangement has been mutually agreed upon by the Norfolk District, For Monmouth, and the AE for this study. Please assure that sufficient time is provided for review and comment on ECO analyses prior to development of project documentation and submission of the final report.	33.	Page 6-4: Our intent is to allow for necessary time for review of the ECOs.

	Comment		Response
34.	Page 6-5: In the Proposal: Change "380 kW/ton" to "380 kW".	34.	Page 6-5: Paragraph corrected per comments.
35.	Page 6-6 and General: What bases is used for estimating the construction costs, Means, a quote, a combination? Please include the estimate with backup data where appropriate for each ECO analysis.	35.	The cost estimates are for the most part based on Means. The estimate for this ECO was inadvertently left out of this submission.

Interim Review Comments and Responses

The following addresses the review comments (SEL-FM-PW-E Comments - Zatorski) for the EEAP Limited Energy Study, er Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

	Comment	Response
1.	Sec 6.2 1a) Buildings 2705 & 2704 should be converted as per recommendation.	1. Sec 6.2 1a) Agreed
	1b) Building 2700 cleanrooms may go out of business. Don't know at this time, Building 2705 as per recommendation.	1b) Entech shall proceed with the assumption that the cleanrooms will continue to operate as is. Consideration for what might happen in the future is difficult to incorporate into an ECO analysis. Note: If the building steam is removed then a heat source of one type or another will still be required for these parts of the building.
	1c) Building 2700 Kitchen equipment. Per discussions with Mr. C. Stone, MWR Mgr. It will cost approximately 18K to replace the steam operated dish washer and steam tables.	1c) Thank you for the input on the kitchen equipment. Further discussion with Mr. C. Stone clarified that the \$18,000 is for both the kitchen equipment and installation costs, and that these appliances will utilize hot water fired locally by natural gas. Miscellaneous costs will be added in the ECO analysis to assure an adequate estimate for this work.
	1d) Building 2700 domestic hot water should be converted to gas fired equipment utilizing the existing distribution system.	1d) Agreed
	a) Project in progress in Building 2706.	a) The extra boiler mentioned in our submittal related to a unit that would be deemed necessary (by Fort Monmouth personnel) for supplying year round heat and/or reheat for areas outside the scope of the new cleanroom boiler for the base case. We are aware of the project in Building 2706 which supports the MCA system. Further discussion with Fort Monmouth personnel has confirmed that only the cleanroom heating/reheat load will be required during the summer in Building 2700.
	b) Don't know how much of an impact will be left after ARL leaves, hold on this.	b) Refer to comment 1b. The use of hot water versus steam for the cleanroom boiler is a variation from the base case for an ECO comparison only.

	Comment		Response
	c) Not feasible or cost effective. Entirely to much piping construction required to achieve this.		c) We appreciate your insight. The ECO evaluation should confirm your thoughts.
	d) Would be governed by cost effectiveness between the operation of electric and gas fired equipment. Costs of the actual equipment are probably the same.		d) The ECO analyses will determine the best method for providing domestic hot water.
2.	Sec 6: Don't agree, approximately 50 units will be required and will be maintenance intensive.	2.	Sec 6: We appreciate your input on what might be required. The ECO evaluation should confirm your thoughts.
3.	Sec 6: If you include FCUs you're talking about 1400 units.	3.	Sec 6: Our intention was to address air handing units that are not dictated by space exhaust (outside air) quantities (ie: cleanrooms, etc.) Fan coil units (FCU's) will not use clocks.
4.	Sec 6: Will need some kind of study on this.	4.	Sec 6: Resolving the exhaust/infiltration problems associated with this building would take an extra study or evaluation beyond the scope of this project to properly discern how changes could be made. Our intent will be to demonstrate ECO findings associated with a reasonable scenario for this building.
	Sec 6: Not cost effective per page 6-7 of this text.	5.	Sec 6: Agreed
6.	Sec 6: Not versed to comment.	6.	Sec 6: No response required.
7.	Sec 6: Not versed to comment.	7.	Sec 6: No response required.
8.	Sec 6: Will issue IJO for rehab of tower #5.	8.	Sec 6: Our intent is to look at changes to the cooling tower (CT-1) for the chiller plant.
9 12	. Sec 6: Not versed to comment.	912.	Sec 6: No response required.

Interim Review Comments and Responses

The following addresses the review comments (Comments - Konig) for the EEAP Limited Energy Study, Myer Center am & HVAC at Fort Monmouth, NJ along with our responses.

	Comment		Response
1.	Entech did an excellent job of describing the existing conditions of the Myer Center and it's existing mechanical system.	1.	Thank you for your comment.
2.	Of the 12 ECOs on Entech's list only ECO #5 was evaluated.	2.	Out intent was to supply an example (ECO #5) for review, and to list the ECOs to be evaluated.
3.	Entech must evaluate the other 11 ECOs.	3.	Our intent is to evaluate all 12 ECOs.
4.	Page 3-1, Typos, Eatontown not Eatonville.	4.	Page 3-1: Corrected.

RESPONSES TO PRE-FINAL REVIEW COMMENTS

EEAP LIMITED ENERGY STUDY

at

MYER CENTER
Ft. Monmouth, New Jersey

prepared by

ENTECH ENGINEERING, INC. 4 South Fourth Street Reading, Pennsylvania 19603 610-373-6667 Entech #4130.05

February 1997

The following addresses the review comments (DPW - K. Dooney - Mech/General) for the EEAP Limited Energy Study, Myer Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

	Comment		Response
1.	Pg 1-3, Table 1.4.1; Real Property records for building 2705 indicate that building is 47,592 sf.	1.	The square footage for Building 2705 was revised to 47,592.
2.	Pg 1-5, para 1.7; 2nd para of 1.7 states identification of opportunities with building 2700 HVAC system was limited. The subsequent sentence provides 2 reasons, however, it is not clear how these reasons especially "the large number of miscellaneous systems" limited Entech's ability on identifying cost effective opportunities. Please explain.	2.	The scope of this limited energy study project was clarified in a letter from E. Caulkins of Entech to K. Dooney, Ft. Monmouth dated 9/27/95. The letter addresses the change in scope beyond the steam system study to include possible energy savings opportunities with the remaining major HVAC systems in Building 2700. A preliminary list of ECOs was presented in that letter that became the basis for the final group of ECOs reviewed. Additional clarification was gained with an earlier telephone conversation between J. Kendall, Norfolk District and E. Caulkins at Entech. We believe our report addresses the most practical list of potential energy savings opportunities for Building 2700. The reason for the limited opportunities for this building can be attributed to the types of installations in this building.
			The only opportunities that may exist beyond the list provided would come from areas supported by small dedicated systems that may or may not be inefficient. Even at that, changes in efficiencies for small systems do not generally pay for new equipment from an energy savings standpoint. The reference to the "large number of miscellaneous equipment" relates to the remaining pieces of cooling equipment not addressed by the ECOs. These individual systems may be in need of equipment changes but the scope of this limited study does not include those evaluations.
3.	Pg 1-6, Table 1.7.1; What is the abbreviation "LCCID" mean?	3.	Section 2.6.6. was updated to add the description for the acronym LCCID (Life Cycle Cost In Design). A note was added below Table 1.7.2 to refer to Section 2.6.6 for an explanation of the LCCID program.

	Comment		Response
4.	Pg 1-7, top pg; The sentence at top of page, "addresses" should be "addressed".	4.	"Addresses" was changed to "addressed".
5.	Pg 1-7; Is this the recommended "implementation plan"? the words "In order to go further" are not descriptive enough.	5.	Page 1-7 was re-written to help clarify our intent.
6.	Pg 1-7, para B; What is meant by a "strategic up front survey" and why wasn't this included in this study? It is one of the recommended ECOs.	6.	Refer to the response for comment 2, and the changes created by comment 5 of page 1-7. Also refer to the response for comment 19.
7.	Pg 2-8; The examples indicate inside temp of 65°F while the table indicates 72°F. The inside temp of 72°F is more realistic. Recommend degrees on pg 2-8 be changed.	7.	The temperature in the sample calculation on Page 2-8 was changed to 72°F. Also, the U-value was corrected in the calculation to 0.55. The values determined for the Heat Loss and Cost in the sample calculation are correct.
8.	Pg 2-9, Table 2.5.3.1; Roof "U" value of 0.11 does not seem correct. We design to U=0.03 now and over the past 20 yrs. the roof "U" value constructed for at least U=0.05	8.	The U-value that we used was based on standard installation per ASHRAE Handbook 1977 Fundamentals. Nothing we saw from an installation standpoint or the drawings available to us suggested that the roof was of construction constituting U-values of 0.05 or better. In any event, changing the value would not have any significant effect on the ECO results.
9.	Pg 2-10, para 2.5.4, 6th sent; Explain what is meant by this sentence - "Year round cooling and heating loads will be estimated based on building's usage".	9.	This statement generalizes the approach of evaluating chunks of building space by the apparent utilization of the space(s), by the equipment supporting the area and by the relative location within the building. Refer to Section 5.4 beginning on Page 5-22 for more explanation on this approach.
10.	Pg 2-14, winter and summer schedule; This does not agree with winter months at left bottom of Table 2.5.5.1.	10.	The approach to the electric model for this project was to review the loads on a 3-season (4-month/season) basis for establishing demand and usage while the actual rates are bi-seasonal based. Summary calculations evaluate the cost associated with the totals for the summer (4-months) and non-summer periods (8-months). The reference to winter months in the lower left hand corner of the sample, Table 2.5.5.1 refers to the non-summer months.

	Comment		Response
11.	Pg 2-16, Table 2.5.5.1; Demand charge are \$9.22 from June - Sept. How does this jive with info at left bottom of Table 2.5.5.1. Why is historical data absent?	11.	The values at the lower left of Table 2.5.5.1 are different from the values determined later for Fort Monmouth because this table is a sample only. Also, no historical data is shown because it is a sample only.
12.	Pg 2-21, para 2; deviation of \$21.23 per mmBtu requires a "\$" sign in numerator	12.	Page 2-21 was corrected to add "\$" in numerator.
13.	Pg 2-25, para 2.7; There has never been a meeting scheduled with DPW to discuss report findings. Perhaps when these comments are received an "on-board review" at DPW can be scheduled.	13.	As previously agreed upon, we would be available for a meeting once the review comments were made and addressed.
14.	Pg 3-5, Table 3.3.2; The roof resistance value / "U" value does not appear correct. Roof replacement was completed.	14.	Refer to comment item #8.
15.	Pg 2-23, Table 2.6.6.1; Can this table be made to appear clearer than it is? How does this table fit into what we are doing? Purpose?	15.	No. This table is an exact copy of what was received with the program. The table is a guideline of how one would go through the LCCID program commands/functions. It was provided as a reference to the LCCID approach.
16.	Pg 1-5, 1-6, ECO Summary Table 1.6.1; Why are there no Non-ECIP, O&M projects developed, ie FEMP projects?	16.	We did not identify any projects that fit the non-ECIP, O&M projects definition as stated on Page 7-3.
17.	Pg 3-17, 3-18, Table 3.4.1.1 & 3.4.1.2; What does "Est" mean in the column headings?	17.	The term "Est" means that every piece of information listed in the table was not identified from a drawing schedule, maintenance list, equipment tags, etc. Information was added and values calculated (estimated) where necessary to complete the table. We filled in these remaining columns with values based on the information available and/or good engineering judgement. (i.e. estimated in some cases).
18.	Table 3.4.1.1 & 3.4.1.2; The point size is too small - recommend/request table be reprinted with point size of Table 3.4.1.6.	18.	C-size drawings of the two tables in question are attached for your use. The 11x17 tables in the report were left as is.

	Comment		Response
19.	Pg 3-14, Bldg 2700 exhaust and 5-33/34; The deficiency that exists would suggest to me that a possible Non-ECIP O&M project could be developed to remedy this deficiency.	19.	Yes, we recognize that the building as presently setup has significant deficiencies associated with a lack of outside air, and potentially excess exhaust. A project to add air where needed and to reduce air where not required by eliminating exhaust would go along way toward improving the air quality in the building. Such a project however, would not reduce overall energy costs. The costs would increase with the added outdoor air quantities. This study focused on energy savings opportunities and not building deficiencies. The project presented later as ECO-3 was a hypothetical situation based only on the reduction of unnecessary exhaust.
20.	Pg 3-15, 4th line from top; Cross reference specific page #'s where the discussion of exhaust, ventilation rates, infiltration occur in Section 5.	20.	Page 3-15 was revised to add reference details to "Section 5".
21.	Pg 3-25, 6th line from top; Bldg 2705 is not 30,000 sf. Our records indicate 47,592 sf.	21.	The square footage in this sentence was revised to match the exact total provided.
22.	Pg 3-27, 4th line; Why did Entech "assume" two pumps installed? In the note that follows the "pumps had failed? this cannot be an assumption.	22.	Page 3-27, Section 3.6 was rewritten to eliminate the assumption that "two domestic hot water pumps were installed".
23.	Pg 3-27, para 3.7, 6th line; Which feature (or both) is not being used.	23.	The sentence in question was clarified on page 3-27 addressing the use or non-use of time clocks.
24.	Pg 3-31, para 3.10, 9th line; Natural gas usage in lab areas should be more certain not "possibly" either by site inspection or interview with lab technicians this could be made certain.	24.	Since the available records suggested extremely low levels of gas usage, it was not considered important to identify all the minor users including labs. Only the expected gas usage associated with boilers was evaluated with the models and the ECOs.
25.	Pg 4-1, para 4.1 4th line, Pg 4-10, para 4.4; Natural gas billings were available for Bldg 2700 - if these were not being furnished Entech should have announced in stronger terms these were not provided. I recall hearing no objection by Entech personnel other than billings were required. Natural gas billings can be provided.	25.	We visited the Ft. Monmouth "energy" group on three different occasions to assist in the search for billing information associated with Building 2700. Several phone calls and faxes of request were made in an attempt to get more information. What is shown is what was either found and/or provided. Since the past use of gas was negligible relative to the projected future totals, the information provided was of little use anyway. New billing beyond (later than) the time period evaluated are not requested.

	Comment		Response
26.	Pg 4-1, 4.1, 14th line; Specify where in Section 5 these "details" may be found.	26.	The line in question was modified to include the Section 5.6.3.1 reference.
27.	Pg 4-7, para 4.2.3, Entech should contact the utility and verify what the interval is.	27.	The interval as specified in ACP&L Rate Schedule Sheet No. 22, Revision 3, is 15 minutes as stated on Page 4-7.
28.	Pg 4-11, 1st & 2nd line, Pg 4-12 Table 4.4.1; The natural gas data presented is useless.	28.	Data is based on actual gas bills for Building 2700 for the time period of this report. The boilers were still running on oil during this period also. Also refer to response for comment 25.
29.	Pg 4-15, 3rd line; The text should state "how" this adjustment was made and perhaps include an example.	29.	The text Section 4-5, starting on page 4-12, modified to further clarify how the steam production totals were established.
30.	Pg 4-17, para 4.6, 2nd line; Spell "production".	30.	We have added the missing "i".
31.	Pg 4-17, para 4.6, 5th line; Is it accurate to assume the efficiency of oil fired 1940 equipment for the (equal to) efficiency of the 1994 dual fuel oil and natural gas burners? Is natural gas more efficient then fuel oil?	31.	Refer to the changes in Section 4-5 pertaining to comment 29. The changes in that section also address the questions presented here in this comment.
32.	Pg 5-2, para 5.2.1, 4th line from bottom & Pg 5-3; Indicate where are the text the EZDOE results can be found. The various percentages given require some foundation. How were they determined?	32.	The results are summarized on a yearly basis in Section 5.4.4, starting on page 5-39. The percentages or diversity factors used in steam models represent average estimates for the amount of connected load needed during a given time of day and year. We used the EZDOE results as a check for setting these factors along with engineering judgement for trends, balance, etc.

	Comment		Response
33.	Pg5-7, 7th line from top, Table 5.2.2.1 - 5.2.2.3; What is the basis/foundation for the assumption of the percentage? Is this the percentage of the connected load? The text should state "connected load" if it is. Reheat values seem high.	33.	Refer to the response for comment 32. Also we have added changes to Section 5-2 to clarify that the percentages relate to the connected loads as far as the reheat values go, the systems using reheat do so because of dehumidification concerns which inherently creates a constant discharge temperature scenario for these spaces. In the case of Building 2705 the reheat loads for the zones involved are highest at night during the winter because of the outdoor affect of heat loss, and the lack of internal gain in the space at night. This is typical for most systems with exception of cleanrooms which utilize high volumes of air and have internal heat gains on a more consistent basis. Therefore, the rise in space temperature is basically a constant year round and for the most part it is maintained by consistent levels of average reheat. The actual values may fluctuate some with seasonal affects but with the great amount of air involved its impact is minimal. The values used in the study are adequate for the level of analysis involved.
34.	Pg 5-7, 5-8; The "reheat loads" for the cleanrooms as a constant year round value puzzles me and I don't understand the logic. The reheat values of Bldg 2705 in the summer seem equally illogical. Need your help understanding this.	34.	See response to comment 33.
35.	Pg 5-13, Table 5.2.6.1; The heading % - how were they determined? The same is typical for all categories. Text should explain how to the nearest 1/10% this was calculated (assumed).	35.	The approach is portioning a 100% of the steam produced by rounding the estimated steam model values to the nearest 1/10 of 1%.
36.	Pg 5-13, Table 5.2.6.1; 48.8% steam loss! Is our auditor going to "guffaw" at this value? Are we certain this is fairly reasonable & accurate? Seems unreasonable.	36.	As stated previously, the steam losses projected here may include losses in the boiler. Page 5-13 was modified to add a note about the steam loss numbers. We believe that this system as operating is creating an excessive amount of condensation.
37.	Pg 5-18, Fig 5.2.7.4; Figure shows steam losses at 49.6% is that figure a weighted average of 48.8, 49.8 & 53.5?	37.	Figure 5.2.7.4 is a graph of the average values presented in Table 5.2.7.3.
38.	Pg 5-20, Table 5.3.1; Roof "U" value is not 0.11. A factor of 0.05 is more reasonable.	38.	Refer to the response to comment 8.

	Comment		Response
39.	Pg 5-20, Table 5.3.1; The infiltration rate as compared with Table 2.5.2.1 is different - 0.2 chg/hr vs 0.6 chg/hr. The ventilation ratio appears to be very low!	39.	The 0.6 air changes per hour (chg/hr) value in Table 2.5.2.1 is for a sample calculation only. The 0.2 chg/hr value used later in Figure 5.3.3 represents an average value for the entire area being evaluated in Building 2700. Infiltration occurs where air can move in and out of rooms next to walls, roofs, etc. The large spans of area in the middle core of the building doesn't figure into the air infiltration. But since the heat loss calculation uses the entire building area, we had to make air adjustment to the "chg/hr" for predicting the average per square foot infiltration totals.
40.	Pg 5-22, Fig 5.3.3; Since the bldg's seriously deficient in ventilation does this figure have any validity? Infiltration ratio of 0.2 AC/hr vs. 0.6 AC/hr as low as it is would it constitute 38.4% in heat loss? Does this make sense in light of pg 3-14 connected load exhaust = 180,000 cfm multiplier = 65,000 cfm?	40.	The 0.2 chg/hr value as explained in comment 39 creates a significant overall infiltration which constitutes close to 22% heating totals, see Figure 5.3.3 on page 5-22. Both the ventilation (outdoor) air and the infiltration air are combined to be exhausted out the roof. Refer to the explanation in Section 5.4.3 beginning on page 5-34. ECO-3 was also modified to reference Section 5.4.3.
41.	Pg 4-18, Table 4.6.1; Recommend that this table be compared with the actual NG bills (enclosed)	41.	No gas bills were enclosed. Generated estimated gas consumption was based on the time period with documented fuel oil usage.
42.	Delete Comment	42.	No response required.
43.	Pg 5-26, Fig 5.4.2.2; (a) MR#? = MR 11 & white (I-1to I-2) (b) Stairway#4 should be violet color coded (magenta?) (c) there is a unit heater which heats area behind breezeway entrance and adjacent to loading dock and stairway #5. (d) Substation #5 should be violet.	43.	Corrected and added drawing notes where appropriate-(a), (b) and(d) (c) The blue area in the back represents MCA (III8 - III9) unit heaters. A steam heater exists in dock area from III 9 to III11.
44.	Pg 5-27, Fig 5.4.2.3; (a) the main entrance has steam radiation heat inside col I9 to col I10 (b) the area between col I15 and II5 at the bldg exterior is MCA 2-pipe (light brown) (c) there is a MR for PM JCALS located at bldg center line before col lines IV14 & IV15. Color light tan. (d) MR#? between I17 &I18 = MR13		Corrected, modified and added drawing notes where appropriate for (b), (c) and (d). (a) From the design drawings and our walk thru it is our understanding that MCA air handlers and cabinet unit heaters serviced this area.

	Comment		Response
45.	Comment Deleted	45.	No response required.
46.	Pg 5-28, Fig 5.4.2.4; (a)Center core area between col I6 & I9 is served by equipment in MR21 and is not MCA 2-pipe. (b) Center core between I2 & I4 has a thru wall A/C & Liebert A/C for telephone room.	46.	 (a) According to MCA drawing M-19, this area is supported by MCA system ductwork to/from Mechanical Room 21A above stairwell #1. (b) The loads in this area were generally modeled as steam w/misc DX cooling. The study at this stage will not be updated for this equipment.
47.	Pg 5-27, Fig 5.4.2.3; (a) Extend light tan one bay south to III12 & III13 (b) MR#? between III9 & III10 is not a MR - delete from dwg.	47.	Corrected (a) and (b).
48.	Pg 5-26, Fig 5.4.2.2; (a) MR#12 should be white unheated space. (b) delete (c) Area between I17 & II4 should be green - cooling only. (d) MR#? between III9 to III10 does not exist delete notation. (e) Area between III10 to III13 should be light tan (not blue)	48.	Corrected (a), (c), (d), and (e).
49.	Pg 5-28, Fig 5.4.2.4; Between core I6 to I9 should be composite dark tan & green Not MCA 2-pipe!	49.	See response to comment 46 (a).
50.	Pg 5-29, Fig 5.4.2.5; Between Core II20 to III9 should be composite dark tan & green.	50.	Corrected this item.
51.	Pg 5-31, par 5.4.3, "City of ref"; "Long Beach" would be a more appropriate city of ref. than Newark.	51.	Newark NJ is the closest site with available weather data for EZDOE.
52.	Pg 5-34, 2nd line from bottom; Why is the connected O.A. quantity an "estimated" quantity?	52.	Outside air quantities were established from schedule or estimation. Scope of work did not include detailed evaluation of all HVAC equipment including TAB reports.
53.	Pg 5-36, 5-37, Tables 5.4.3.1 & 5.4.3.2; The AC/hr rate is given here as 0.8 for infiltration. See pg 5-20, Table 5.3.1 uses 0.2 AC/hr. In the degree day method, why are different values used?	53.	Higher value of 0.8 AC/hr was used for specific perimeter zones in EZDOE. Degree Day Method used 0.2 as an average for the total floor area combined. See response to comments 39 and 40 also.
54.	Delete comment	54.	No response required.
55.	Pg 5-42, Table 5.5.1.1; The title seams a little mislabeled what is "heating reheat"	55.	Title should be "Heating/Reheat"

	Comment		Response
56.	Pg 5-19, 6th line from top; What does "cost estimate" have to do with the heat loss model? Is this a typo?	56.	The sentence in question on page 5-19 was modified to clarify the comment.
57.	Pg 5-42, Table 5.5.1.2, 5th line from bottom; The 1,417 tons peak cooling is not found in Table 5.5.1.2. This value is supported by the operation of only 1 MCA chiller during the summer months.	57.	The figure in this line was modified to read 1,330 which matches Table 5.5.1.2. Yes, the peak day of 640 tons of MCA water is less than the chiller capacity of one chiller, or 690 tons.
58.	Pg 5-50, Table 5.6.3.2, 5.6.3.3; The comparison of the models is not in the report I have or the Tables 5.6.3.2 and 5.6.3.3	58.	The only comparison was made in Table 5.6.3.1. Tables 5.6.3.2 and 5.6.3.3. were not needed, and the reference on page 5-51 was deleted.
59.	Pg 6-2, 2nd line from top; An ECO to provide ventilation to balance the exhaust & infiltration requirements should have been developed FEMP?	59.	Refer to the response for comment 16 and 19.
60.	Pg 6-5, Bldg 2706, Boiler plant (MCA HW) 2nd sent; What is the basis for 15.2 mlbs/day? How does this jive with EZDOE of 3,460 mmBtu/yr (5,500 mmbtu/day)?	60.	The introduction to ECO-1 was modified to reduce confusion by removing the 15.2 mlbs/day reference. Table 5.5.1.1 was modified to read 5,500 mmBtu per year and this value matches the MCA totals from Table 5.4.4.
61.	Pg 6-9, proposed reheat (similarly Pg 6-15, & Pg 6-23); Boiler (HW not steam please) should be located in MR41 and MR42 not MR43.	61.	Pages 6-9, 6-15, and 6-23 were modified to add reference to the alternate choice, ECO-1B, for hot water boilers instead of steam boilers for the cleanroom areas. We selected MR43 because of its larger size and that it was relatively empty of useful equipment. MR41 and 42 are smaller and presently include operating equipment.
62.	Pg 6-21; (a)Please justify or provide basis in "factors" = labor = 55%, material = 10% (b) spell "contingency"	62.	(a) These are the markup values we use for labor and material. Their basis is from the Means Estimating Books, and generally the average impact of the two values is to create 25% markup. (b) Spelling has been corrected.
63.	Pg 6-22; What % applied to "overhead and profit" to be added to subtotal.	63.	The overhead and profit factors are 10% on materials and 55% on labor. The spreadsheet automatically calculates these values and adds them to the bare cost.
64.	Pg 6-29; Bldg has been replaced, not req'd, no cost. The overall cost is very high.	64.	Building 2704 was part of the scope during the development of the study. The costs included a new building to support new boilers.

	Comment		Response
65.	Pg 6-37, proposed, 2nd section; Aren't these really "preheat coils"?	65.	Reheat coils are normally required for cleanroom temperature and humidity control requirements. Subcooling is required to remove moisture after which reheat is provided to maintain space temperature control.
66.	Pg 6-40; More than 1 HW coil will be required.	66.	The cost estimate states (3) coils at \$5,000 each, implying one coil for each unit. The reality is that this will probably take multiple coils for a given AHU "coil". We believe the cost estimate is appropriate for the installation.
67.	Pg 6-60 & attach 8.13; This is only a tape, bubble gum and string approach. The building lacks ventilation in accordance with ASHARE 62-1989. Isn't the fix proper ventilation & removal of excessive exhaust? Then infiltration will be reduced and fresh air requirements meet. I think we have some other type of project here. Re: page 6 of attachment 8.13.	67.	Refer to responses to comments 16 and 19. As stated, fixing the building air balance problems cannot be paid for by energy savings.
68.	Pg 6-17; The current operation of the MCA HW heating system is one boiler operating in standby. Can this be maintained with this option?	68.	If the changes associated with ECO-1 are made, then it is quite possible that you may have to go to a second boiler during peak periods. This type of operation would equate to a system setup of two boilers operating at 60% capacity during peak periods.